



The International Pharmacopoeia

Third Edition

Volume 2

Quality specifications

1981

World Health Organization 1981

		:		•
		:		
.372	/ 2 1	/	/	.1
	AMENDMENTS AND CORRIGENDA TO VOLUMES 1 AND 2			
.310	/3 2 1	/	/	.2
	AMENDMENTS AND CORRIGENDA TO VOLUMES 1,2 AND 3			
.256	/4 3 2 1	/	/	.3
	AMENDMENTS AND CORRIGENDA TO VOLUMES 1,2,3 AND 4			

:

VS

TS

RS

R

International pharmacopoeia

.WHA3-10¹

3 2 1

1

1979-1977

2

WHO Expert advisory Panel

1980/ / .

2

2

..

:

.127

1979 1

.¹

.1979 1

.²

.1980, 645

.³

WHA3 .10

5
13
17
311

47	19
50	21
51	23
53	25
56	26
59	29
61	31
64	33
66	35
69 ()	37
72	39
74	41
76	44

139	78
141	80
143	82
145	85
148	86
151	89
153	91
156	94
158	96
161	98
162	100
165	102
167	105
169	108
172	111
174	112
176	114 ..
178	116
180	119
182	122
185	125
187	127
189.....	130
192	132
194	134
196	136

256	198
258	201
260	203
262	206
265	208
267	210
269	213
271	215
274	217
276	219
278	221
280	223
283	226
285	228
287	229
290	231
293	233
295	236
298	239
302	241
305	243
307	245
	247
	249
	252
	254

GENERAL NOTICES

Monograph nomenclature

International Nonproprietary Name (INN)

)
nominative ()
Codeini) genitive ()
()
Natrium "Natricus" Cloxacillinum)
(Cloxacillinum natricum
(Ethosuximidum
(phosphas
()

International pharmacopoeia

"

"

Chemical formulas

Chemical names

.International Union of pure and Applied chemistry (IUPAC)

()

IUPAC

Chemical Abstract Service (CAS NO.)

.American Chemical Society

Identity tests

analyst

()

Spectrophotometer

"Identity tests"

Impurities

()

limits

Water

.demineralized

Clarity of solution

"Colour of liquids " 1
opalescence standard TS2 . ()
.TS2

Colourless solution

"Colour of liquids " 1
RdO GnO YwO BnO

Indicators for visual determination of pH values

pH

. pH

Water - bath

(° 100)

Examination in ultraviolet light

(365 254)
365 254

Loss on drying

Containers

.1

.Hermetically closed container

)

handling (

Stability information

Category

()

()

therapeutic

()

MONOGRAPHS

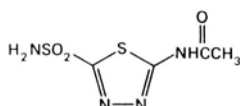
ACETAZOLAMIDUM

Acetazolamide

$C_4H_6N_4O_3S_2$:Molecular formula

222.2 :Relative molecular mass

:Graphic formula



:Chemical name

N-(5-Sulfamoyl-1,3,4-thiadiazol-2-yl)acetamide; *N*-[5-(amino-sulfonyl)-1,3,4-thiadiazol-2-yl]acetamide; 5-acetamido-1,3,4-thiadiazole-2-sulfonamide; CAS Reg. No. 59-66-5.

:Description

TS (/ 750 ~)

:Solubility

R

R

:Category

:Storage

REQUIREMENTS

% 101.5

% 9.0

:General requirement

$C_4H_6N_4O_3S_2$

:Identity tests

"

:A

(43

1

) "Spectrophotometry in the infrared region

reference spectrum

RS

0.1 VS (/ 1) 0.15 5 25 :B
 TS (/ 80) (II)

0.2 VS (/ 1) 1 5 0.5 :C
 () TS (/ 420 ~) 0.5 R

80) () TS (/

1.0 :Heavy metals ()

(127 1) 3 "Limit test for heavy metals "
 . / 20 (128 1) A ()

5 ° 70 40 1.0 :Sulfates

1) "Limit test for sulfates "
 . / 0.5 (116

. / 1.0 :Sulfated ash

° 105 :Loss on drying . / 5.0

.6.0 - 4.0 5 50 1 :pH value

" :Related substances

R2 (84 1) "Thin - layer chromatography
 20 R - 2 30 30 coating substance

Xylene R 10 R 10 TS (/ 35 ~)

5.0 :(A) TS (/ 750 ~) 20

. 1 0.050 :(B) 1

.(254)

.B A

R 90 0.45 :Assay
 VS (/ 0.1)

1 .(142 1) B "Non-aqueous titration"
 .C₄H₆N₄O₃S₂ 22.22 VS (/ 0.1)

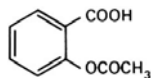
ACIDUM ACETYLSALICYLICUM

Acetylsalicylic acid

C₉H₈O₄ :Molecular formula

180.2 :Relative molecular mass

:Graphic formula



:Chemical name

2-(Acetyloxy)benzoic acid; 2-acetoxybenzoic acid; CAS Reg.

No. 50-78-2.

:Description

TS (/ 750 ~)

300

:Solubility

.R

R

:Category

:Storage

:Additional information

REQUIREMENTS

%99.0

:General requirement

C₉H₈O₄ %100.5

Identity tests

(/ 25)

2 - 1

2 0.05

:A

			.TS (/ 750 ~)		-		TS
5		3	TS (/ 80 ~)		4	0.2	:B
(C		)	.		TS (/ 100 ~)		
.(		) ° 159			° 105		
	2	TS (/ 750 ~)		2	B		:C
	)				TS (/ 1760 ~)		
							.(
	R		25	1.0	:Heavy metals	()	
	"Limit test for heavy metals				"		
20	(128	1	) A		(127	1	) 2
					.	/	
(/ 750 ~)		10	1.0		:Solution in ethanol		
							TS
		10	0.5		:Solution in alkali		
					.	TS (/ 50)	
				. /	1.0	:Sulfated ash	
						:Loss on drying	
5.0	R			(	5	0.6)
							./
TS (/ 750 ~)					0.50	:Salicylic acid	
R		0.040				10	25
10				1	.	100	
1	50					.TS (/ 750 ~)	
.	1			ferric ammonium sulfate TS1			
2.0			(53	1	) "Colour of liquids		"
							./

VS (/ 0.1) 50 .Assay
 reflux 0.20
 / TS (/ 0.05) . 10
 1 . . TS
 .C₉H₈O₄ 9.008 VS (/ 0.1)

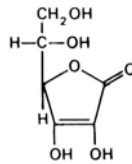
ACIDUM ASCORBICUM

Ascorbic acid

C₆H₈O₆ :Molecular formula

176.1 :Relative molecular mass

:Graphic formula



:chemical name

CAS Reg. No. 50-81-7. L-Ascorbic acid

:Description

R

TS (/ 750 ~)

:Solubility

.R

.Antiscorbutic

:Category

:Storage

:Additional information

REQUIREMENTS

%99.0				:General requirement	
				$C_6H_8O_6$	%100.5
				Identity tests	
	TS (/ 130 ~)			2	0.1 :A
		()		TS (/ 40)	
20	R		0.1	0.04	:B
5				R ()	
				.TS (/ 100 ~)	
			° 190		:C
$[a]_D^{20} = +20.5$	/	50		:Specific optical rotation	
					.to 21.5°
			1.0	:Heavy metals	()
		"Limit test for heavy metals			"
	/	20	(128	1	) A
	10	0.50		:Clarity and colour of solution	
Colour of	"		Rd1		
				(53	1) "liquids
	10	0.10		:Readily carbonizable substances	
Gn1	Yw1		15	.TS (/ 1760 ~)	
	(53	1	) "Colour of liquids	"	
			/	1.0	:Sulfated ash
		25		0.20	:Assay
VS (/ 0.5)			(/ 100 ~)		25 R
1				TS	
			$C_6H_8O_6$	8.806	VS (/ 0.5)

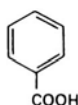
ACIDUM BENZOLCUM

Benzoic acid

$C_7H_6O_2$:Molecular formula

122.1 :Relative molecular mass

:Graphic formula



:Chemical name

Benzenecarboxylic acid; CAS Reg. No. 65-85-0.

:Description

R TS (/ 750 ~)

:Solubility

.R

:Ctegrory

:Storage

REQUIREMENTS

%0.99

:General requirement

$C_7H_6O_2$ %100.5

:Identity test

5 R1

0.1

0.1

. ()

TS (/ 25)

.° 124 - 121 :Helting rage

25

1.0

:Heavy metals ()

R

40

2

R

A "Limit test for heavy metals" (128 1)
 . / 20

5 0.35 :Chlorinated compounds and chlorides
 TS (/ 50)
 (/ 130 ~) 12 10 ° 400
 Limit test for " . TS
 . / 0.7 (124 1) "chlorides
 . / 1.0 :Sulfated ash

Determination of water by " :Water
 2 R 1 (145 1) A "the Karl Fischer method
 . / 7.0 R

1760 ~) 1.5 :Readily oxidizable substances
 100 TS (/
 1.0 . 30 () VS (/ 0.02)
) VS (/ 0.02) 0.5 15 ()
 TS (/ 750 ~) 15 0.25 :Assay
 0.1) 20 TS /
 . TS / VS(/
 12.21) VS (/ 0.1) 1 .
 .C₇H₆O₂

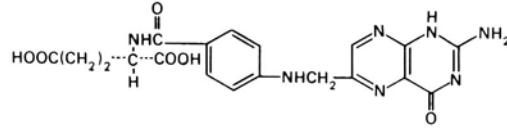
FOLICUM ACIDUM

Folic acid

C₁₉H₁₉N₇O₆ :Molecular formula

441.4 :Relative molecular mass

:Graphic formula



:Chemical name

N-[*p*-[[[2-Amino-4-hydroxy-6-pteridiny]methyl]amino]benzoyl]-L-glutamic acid; *N*-[4-[[[2-amino-1,4-dihydro-4-oxo-6-pteridiny]methyl]amino]benzoyl]-L-glutamic acid; CAS Reg. No. 59-30-3.

:Description

TS (/ 750 ~)

:Solubility

.R R R

.Haemopietic

:Category

:Storage

REQUIREMENTS

%96.0

:General requirement

C₁₉H₁₉N₇O₆ %102.0

:Identity tests

VS (/ 0.1)

/ 15

:A

365 283 256

3 350 230

2

)

0.28 0.80 0.82

256 1

.(1

.3.00 2.80 365

"Thin - layer chromatography

"

:B

-1 2 coating substance

R1

(84 1)

TS (/ 260 ~)

2 TS (/ 750 ~)

1 R

1 R 9

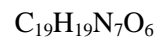
2

0.50 : (B) 1

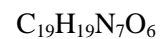
0.50 : (A) TS (/ 260 ~)

A (365) RS
 .B
 / 2.0 :Sulfated ash
 " :Water
 Determination of water (145 1) A "by the karl Fischer method
 0.15 / 90 / 70
 AB T2 AT :Free amines
 .6 B1
 50 0.050 T :Assay
 100 TS (/ 80 ~) TS (/ 80 ~)
 (T₁) 100 30.0
 20 (B₁) 100 30.0
 B₁ T₁ TS (/ 70 ~)
 T₁ 60 R 0.5 B₁
 10 . 20
 (T₂) 100 10
 (B₂) B₁ T₂ 5.0
 70~) 1 1 25
 . 2 TS (/ 1) 1 TS (/
 ammonium sulfamat TS (/ 5) 1
 TS (/ 1) N-(1-naphthyl)ethylenediamine hydrochloride 1 2
 . 10
 B₂ B₁ T₂
 . A_B A_T 550
 .A_{BS} A_S RS

(%) ()



$$100 (10 A_T - A_B) / (10 A_S - A_{BS}) :$$



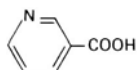
ACIDUM NICOTINICUM

Nicotinic acid

$C_6H_5NO_2$:Molecular formula

123.1 :Relative molecular mass

:Graphic formula



:Chemical name

3-Pyridinecarboxylic acid; CAS Reg. No. 59-67-6.

:Description

750 ~)

100

:Solubility

.R

TS (/

vitamin B complex B

:Category

:Storage

REQUIREMENTS

%99.0

:General requirement

$C_6H_5NO_2$ %101.0

:Identity tests

.D C B

A

•

"

:A

.(43 1) "Spectrophotometry in the infrared region

Reference spectrum

RS

pyridine R 0.4 0.1 :B
()
2 2 10 10 :C
TS1 VS (/ 0.1)
TS (/ 25) 3
° 232 :D
" 1.0 : ()
(127 1) 3 "Limit test for heavy metals
/ 20 (128 1) A
20 TS (/ 130 ~) 2 1.25 :Chlorides
Limit test for " (124 1) "chlorides
/ 0.2 :Sulfated ash
/ 1.0 :Loss on drying
° 105 :pH value
/ 10
3.5 - 3.0 / 13 :Related substances
" (84 1) "Thin - layer chromatography
silica gel R2 (84 1) "Thin - layer chromatography
5 R 10 R -1 85 coating substance
5.0 75
/ 0.12 :A
5 A 10
:B RS
5
:B 5
A 3 (254)

R
 VS (/ 0.1)

50

0.25

Assay

1 . TS /

.C₆H₅NO₂ 12.31

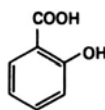
ACIDUM SALICYLICUM

Salicylic acid

.C₇H₆O₃ :Molecular formula

138.1 :Relative molecular mass

:Graphic formula



:Chemical name

2-Hydroxybenzoic acid; CAS Reg. No. 69-72-7.

3 TS (/ 750 ~) 4

Description

Solubility

.R R

.Keratolytic :Category

:Storage

REQUIREMENTS

%99.0

:General requirement

. C₇H₆O₃ %101.0

					:Identity test		
	5	VS (/ 1)				1	0.14
	"General identification tests				"		
					(124	1)
				° 161 - 158	:Melting range		
TS (/ 750 ~)	15	2.0			:Heavy metals	()
Limit test for heavy				"			
(128	1	) A			(127	1	) 2
						/	20
	2	.		40	1.7	:Chlorides	
	"					TS (/ 130 ~)	
	/	0.15		(124	1	)	"Limit test for chlorides
				40	2.5	:Sulfates	
(125	1	)	"Limit test for sulfate			"	
					/	0.2	
TS (/ 750 ~)	10	1.0			:Solution in ethanol		
				/	1.0	:Sulfated ash	
	R					:Loss on drying	
					/	5.0	
20	TS		15		0.3	:Assay	
		VS (/ 0.1)					
	1	.				TS	/
	.C ₇ H ₆ O ₃	13.81	VS (/ 0.1)				

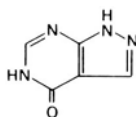
ALLOPURINOLUM

allopurinol

$C_5H_4N_4O$:Molecular formula

136.1 :Relative molecular mass

:Graphic formula



:Chemical name

1,5-Dihydro-4*H*-pyrazolo[3,4-*d*]pyrimidin-4-one; 1-*H*-pyrazolo[3,4-*d*]pyrimidin-4-ol; CAS Reg. No. 315-30-0.

:Description

TS (/ 750 ~)

:Solubility

.R R

Xanthine oxidase inhibitor

:Category

:Storage

REQUIREMENTS

%98.0

:General requirement

$C_5H_4N_4O$ %101.0

:Identity tests

"

:A

(43 1) "Spectrophotometry in the infrared region
reference spectrum

VS (/ 0.1)

10 0.1 :B

100 10 100 VS (/ 0.1)

100 10 VS (/ 0.1)

230 .VS (/ 0.1)

231 minimum 250 maximum 350

.0.55 absorbance .

.0.62 0.52 250 231 1

TS 1 TS (/ 80 ~) 5 0.05 :C

() potassio - mercuri iodide .flocclent

1.0 :Heavy metals ()

(127 1) 3 "Limit test for heavy metals "

. / 20 (128 1) A

. / 1.0 .Sulfated ash

5.0 ° 105 :Losson drying . /

" :Related substances ()

coating R3 (84 1) "Thin-layer chromatography

(/ 100 ~) 200 R -1 200 .substance

diethylamine R 10 .TS

- -3 0.050 : (B) 1 25 :(A)

. 1 (hemisulfate 3-aminopyrazole-4-carboxamide) RS 4-

A .(254)

.B

dimethylformide 50 0.25 :Assay

sodium TS / 2 R

" VS (/ 0.1) methoxide

1 .(142 1) B "Non - aqueous titration

.C₅H₄N₄O 13.61 VS (/ 01)

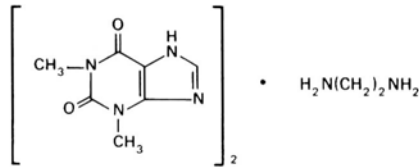
AMINOPHYLLINUM

Aminophylline

$C_{16}H_{24}N_{10}O_4$ () $(C_7H_8N_4O_2)_2 \cdot C_2H_8N_2$:Molecular formula

() 420.4 :Relative molecular mass

:Graphic formula



:Chemical name

(2:1); 3,7-dihydro-1, 3-dimethyl-1 *H*-purine-2,6-

Theophylline

.(2: 1) CAS Reg No. 317-34-0 () 1,2-ethanediamine (2:1) dione

:Description

()

:Solubility

.R TS (/ 750 ~)

.coronary vasodilator

()

:Category

:Storage

:Additional information

REQUIREMENTS

%86.0

%78.0

:General requirement

$(C_2H_8N_2)$

% 15.0

% 12.8

$(C_7H_8N_4O_2)$

:Identity tests

2 10 1 :A
 ° 105 .TS (/ 750 ~)
 .B .() ° 272
 0.5 TS (/ 250 ~) 1 :B
 A 10 TS (/ 60 ~)
 TS (/ 100 ~)
 .TS (/ 80 ~)
 (/ 80) Copper(II)sulfate 2 1 0.05 :C
 . TS
 R 2 TS (/ 80 ~) 2 0.05 :D
 .()
 isocyanide
 10 1.0 :Clarity of solution
 .()
 . / 1.5 :Sulfated ash
 " :Water
 Determination of water by " "Karl Fischer method
 25 0.15 (145 1) A
 . / 80 R
 / 10 TS / 1 :Alkalinity
 . R
 :Assay
 250 0.25 :For theophylline
 TS (/ 100 ~) 8 50
 VS (/ 0.1) 20.0 .
 20 ° 10 ° 5 . 15
 . 10 3
 2 . 3 TS (/ 1000 ~)
 TS (/ 45) ferric ammonium sulfate

18.02 VS (/ 0.1) 1 .VS (/ 0.1)
 .C₇H₈N₄O₂
 30 0.5 :For ethylenediamine
 TS / VS (/ 0.1)
 0.1) 1 .
 .C₂H₈N₂ 3.005 VS (/

Additional requirements for Aminophylline for parenteral use

(.56 4) "Parenteral preparations"
 " :Bacterial endotoxins
 (30 5) "Test for bacterial endotoxins"
 . 1 RS 1.0

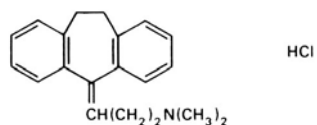
AMITRIPTYLINI HYDROCHLORIDUM

Amitriptyline hydrochloride

C₂₀H₂₃N,HCl :Molecular formula

313.9 :Relative molecular mass

:Graphic formula



:Chemical name

10,11-Dihydro-*N,N*-dimethyl-5*H*-dibenzo[*a,d*]cycloheptene- $\Delta^{5,\gamma}$ -propylamine hydrochloride; 3-(10,11-dihydro-5*H*-dibenzo[*a,d*]cyclohepten-5-ylidene)-*N,N*-dimethyl-1-propanamine hydrochloride; CAS Reg. No. 549-18-8.

:Description

TS (/ 750 ~) 1.5 1 :Solubility
 .R R
 :Category
 :Storage
 :Additional information

REQUIREMENTS

%99.0 :General requirement
 C₂₀H₂₃N , HCl %101.5

:Identity tests

" :A
 (43 1) "Spectrophotometry in the infrared region
reference spectrum RS

General " B / 20 :B
 .(121 1) "identification tests
 .° 197 :C

. / 1.0 :Sulfated ash

° 60 :Loss drying
 . / 5.0 (5 0.6)

.6.0 - 4.5 / 10 pH :pH value

" :Related substances
 R2 (84 1) "Thin Layer chromatography

3 R 15 cyclohexane R 85
 10 diethylamine R

0.20 : (B) 1 20 : (A) R
 A . (254) . B
 10 R1 30 0.3 : Assay
 TS / 10 dioxan R
 Non - " VS (/ 0.1) perchloric acid
 0.1) 1 . (142 1) A " aqueous titration
 .C₂₀H₂₃N , HCl 31.39 VS (/

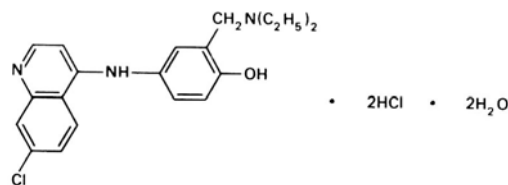
AMODIAQUINI HYDROCHLORIDUM

Amodiaquine hydrochloride

C₂₀H₂₂ClN₃O, 2HCl, 2H₂O :Molecular formula

464.8 :Relative molecular mass

:Graphic formula



:Chemical name

4-[(7-Chloro-4-quinolyl)amino]- α -(diethylamino)-*o*-cresol dihydrochloride dihydrate; 4-[(7-chloro-4-quinolinyl)amino]-2-[(diethylamino)-methyl]phenol dihydrochloride dihydrate; CAS Reg. No. 6398-98-7.

:Description

TS (/ 750 ~)

22

:Solubility

.R R

. () :Category

:Storage

REQUIREMENTS

%98.0

:General requirement

$C_{20}H_{22}ClN_3O$, 2HCl %101.5

:Identity test

.D C B A •
" :A

.(43 1) "Spectrophotometry in the infrared region
reference spectrum

20 1 cobaltous thiocyanate TS 0.5 :B
/

General " B / 20 :C

.(121 1) "identification tests
° 158 :D

. / 2.0 **:Sulfated ash**

Determination of water by " **:Water**

0.015 (145 1) A "the Karl Fisher method
. / 90 / 70

.4.8 - 4.0 / 20 pH **:pH value**

" **:Related substances**

(84 1) "Thim - layer chromatography

Silica gel TS (/ 260 ~) R

R 1 9 R2

0.20 ()

2 10 glass-stoppered test-tube

1.0 .A

.B 200 A
 .B A 10
 A .(254)
 .B
 50 0.3 :Assay
 . 30 TS (/ 100 ~)
 1.205 1 ° 105
 .C₂₀H₂₂ClN₃O, 2HCl

AMPICILINUM

Ampicillin

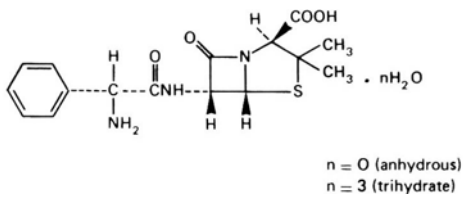
Ampicillin anhydrous

Ampicillin trihydrate

) C₁₆H₁₉N₃O₄S, 3H₂O () C₁₆H₁₉N₃O₄S :Molecular formula

.(trihydrate

:Graphic formula



:Chemical name

(/ 1760~) 2 1 2 :B
 2 . 1 TS
 TS / 2 1
 1 ()

/ 2.5

:Specific optical rotation

$$[\alpha]_D^{20^\circ C} = +280 \text{ to } +305^\circ$$

Determination of water by

"

:Water

(145 1) A "the Karl Fischer method

. / 15

0.8

/ 120

0.1

. / 150

.6.0 - 3.5 / 2.5

:pH value

. 500

0.12

:Assay

10

100

10.0

5

TS

/

1

TS

9.0

. (100)

2.0

TS

/

10.0

.(A) ° 20

25) ° 60

.(B)

10.0

325

1

A

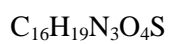
TS

/

10.0

2.0

.B



A

absorbance

RS

.0.02 ± 0.29

AMPICILLINUM NATRICUM

Ampicillin Sodium

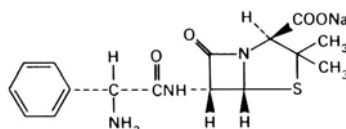
Ampicillin sodium (non-injectable) ()

Ampicillin sodium, sterile

$C_{16}H_{18}N_3NaO_4S$:Molecular formula

371.4 :Relative molecular mass

:Graphic formula



:Chemical name

Sodium (2*S*,5*R*,6*R*)-6-[(*R*)-2-amino-2-phenylacetamido]-3,3-dimethyl-7-oxo-4-thia-1-azabicyclo[3.2.0]heptane-2-carboxylate; sodium [2*S*-[2*α*,5*α*,6*β*(*S*^{*})]-6-[(aminophenylacetyl)amino]-3,3-dimethyl-7-oxo-4-thia-1-azabicyclo[3.2.0]heptane-2-carboxylate; CAS Reg. No. 69-52-3.

:Description

R

2

:Solubility

.R

:Category

:Storage

.° 25

:Labelling

:Additional information

%60

REQUIREMENTS

%85.0

:General requirement

C₁₆H₁₉N₃O₄S %96.0

C₁₆H₁₉N₃O₄S

.%90.0

:Identity tests

.C B

C A

•

"

:A

.(43 1) "Spectrophotometry in the infrared region

reference spectrum

RS

2

2

1 :B

1

TS (/ 1760 ~)

TS

/

2

1

2

1

General

"

:C

B

(123 1) "identification tests

.TS (/ 60 ~)

()

/ 5.0

:Specific optical rotation

. [α]_D^{20 °C} = +260 to + 290°

TS

10

1.0

:Clarity of solution

VS (/ 1)

10

1.0

Determination of water by

"

:Water

0.5

(145 1) A

"the Karl Fisher method

. / 20

8.0 - R

/ 0.10

: pH value

.10.0

0.25 **:Iodine-absorbing compounds**

10 VS (/ 1) 0.5 10 100

TS VS (/ 0.02) VS (/ 0.01)

1

0.7368 VS (/ 0.02)

.C₁₆H₁₉N₃O₄S

500 0.12 **:Assay**

10 100 10.0

5 TS / 1 TS 9.0

(100)

10.0 2.0

25 ° 60 TS /

(A) ° 20

(B) 10

325 1

A TS / 10 2.0

.B

C₁₆H₁₉N₃O₄S B A

RS

.0.02 ± 0.29

Additional Requirements for Sterile Ampicillin sodium

Sterility testing of " **:sterility**

TS (162 1) "antibiotics

Additional requirements for Ampicillin sodium for sterile use

Test for sterility of non -

" (32 5) "injectable preparations
:Bacterial endotoxins
 (30 5) "Test for bacterial endotoxins
 1 RS 0.15

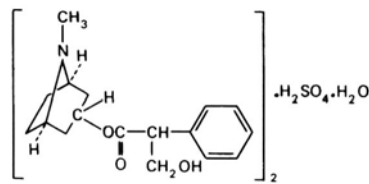
ATROPINI SULFAS

Atropine sulfate

$(C_{17}H_{23}NO_3)_2, H_2SO_4, H_2O$:Molecular formula

694.8 :Relative molecular mas

:Graphic formula



:Chemical name

1 α H,5 α H-Tropan-3 α -ol (\pm)-tropate (ester) sulfate (2:1) (salt) monohydrate; (\pm)-endo-8-methyl-8-azabicyclo[3.2.1]oct-3-yl α -(hydroxymethyl)benzeneacetate sulfate (2: 1) (salt) monohydrate; CAS Reg. No. 5908-99-6.

:Description

TS (/ 750 ~)

1

:Solubility

.R

R

()

:Category

:Storage

:Additional information

REQUIREMENTS

%98

:General requirement
 $(C_{17}H_{23}NO_3)_2, H_2SO_4$ %101.0

:Identity tests

D C B A •
 " :A
 .(43 1) "Spectrophotometry in the infrared region
reference spectrum RS

5 1 :B
 TS / 4-3 R 2

General " A / 20 :C
 .(123 1) "identification tests
 2 R 30 0.6 :D
 .° 100 .TS (/ 80 ~)
 .()° 116

/ 0.10 **:Optical rotation**
 .() = -0.50 to + 0.10° 200

. / 1.0 **:Sulfated ash**

/ 25 ° 120 **.Loss on drying**
 . / 40

R 20 1.0 **:Acidity**
 TS / VS (/ 0.02)
 .() 0.3

0.1 / 10 **:Readily oxidizable substances**

3 VS (/ 0.02)

"

:Related substances

silica gel R1 (84 1) "Thin-layer chromatography

100 ~) 1 R 3 R 6

/ 12.5 R 10 TS (/

potassium iodobismuthate TS2

R1 30 0.6 **:Assay**

Non - " VS (/ 0.1)

(/ 0.1) 1 .(142 1) A "aqueous titration

.(C₁₇H₂₃NO₃)₂,H₂SO₄ 67.68 VS

Additional requirements for Atropine sulfate for parenteral use

.(56 4) "Parenteral preparations "

"

:Bacterial endotoxins

(30 5) "Test for bacterial endotoxins

. 1 RS 55.6

Additional requirement for Atropine sulfate for steril use

Test for sterility of non -

"

.(32 5) "injectable preparations

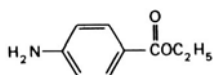
BENZOCAINUM

Benzocaine

$C_9H_{11}NO_2$:Molecular formula

165.2 :Relative molecular mas

:Graphic formula



:Chemical name

Ethyl *p*-aminobenzoate; ethyl 4-aminobenzoate; CAS Reg. No. 94-09.7.

Ethyl aminobenzoate :Other name

:Description

3 TS (/ 750 ~)

6

:Solubility

.R 5.5 R

:Category

:Storage

:Additional information

REQUIREMENTS

%101.0

%98.0

:General requirement

$C_9H_{11}NO_2$

:Identity tests

5 TS (/ 70 ~)

3

5 0.01 :A

TS

1760 ~)

4 TS (/ 300 ~)

2 0.05 :B

.()

TS (/

"

0.05 :C

	(119	1	) "General identification tests
			° 92 - 88 :Melting range
TS (/ 750 ~)	1.0		:Heavy metals ()
"Limit test for heavy metals ()			"
1) A ()		(127	1) 2
		/ 10	(128
750 ~)	10	1.0	:Solution in ethanol
			TS(/
	/	1.0	:Sulfated
			:Loss on drying
R Silica gel	(	5	Kpa 0.6)
	/	10	R
TS	10	0.5	:Acidity or alkalinity
TS /		2	10
0.01)		0.5	.()
		.()	VS (/
1) "Nitrite titration	"		:Assay
70 ~)	50		0.3 (143
(/ 0.1)	1	.VS (/ 0.1)	TS (/
		.C ₉ H ₁₁ NO ₂	16.52 VS

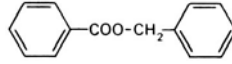
BENZYILIS BENZOAS

Benzyl benzoate

C₁₄H₁₂O₂ :Molecular formula

212.3 :Relative molecular mas

:Graphic formula



:Chemical name

Phenylmethyl benzoate; CAS Reg. No. 120-51-4.

:Description

TS (/ 750 ~)

R

:Miscibility

.R R

.()

:Category

:Storage

:Additional information

REQUIREMENTS

%98.0

:General requirement

.C₁₄H₁₂O₂ %100.5

:Identity tests

10 TS2 /

25 2

:

R 15

5 1

:A

VS (/ 0.02)

1 TS (/ 50)

TS (/ 100~)

10 :B

.() ° 123

.° 17.0

:Congealing temperature

$n_D^{20} = 1.658 - 1.570$ **:Refractive index**

. $\rho_{20} = 1.116 - 1.120$ g/ml **:Mass density**

15 0.30 :Chlorinated compounds
 5 .TS (/ 80~) 6 TS (/ 750 ~)
 .TS (/ 130~) 3 .
 TS (/ 130) 4 CITS 2.0
 (/ 40) 0.5 . 25
 . 5 .TS
 / 0.33
 TS 5 5 :Acidity
 TS / VS (/ 0.1)
 .() 0.3
 / 40 2.0 :Assay
 . 1 VS (/ 0.5)
 . TS / VS (/ 0.5)
 VS (/ 0.5) / 1 .
 .C₁₄H₁₂O₂ 106.1

BENZYLpenicillinum KALICUM

Benzylpenicillin potassium

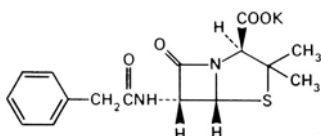
(non - injectable)enzylpencillin potassium ()

Benzylpenicillin potassium, sterile

C₁₆H₁₇KN₂O₄S :Molecular formula

372.5 :Relative molecular mass

:Graphic formula



:Chemical name

Potassium (2*S*,5*R*,6*R*)-3,3-dimethyl-7-oxo-6-(2-phenylacet-
amido)-4-thia-1-azabicyclo[3.2.0]heptane-2-carboxylate; potassium [2*S*-
(2*α*,5*α*,6*β*)]-3,3-dimethyl-7-oxo-6-[(phenylacetyl)amino]-4-thia-1-azabicyclo-
[3.2.0]heptane-2-carboxylate; CAS Reg. No. 113-98-4.

:Description

.R R

:Solubility

:Category

:Storage

.° 25

:Labelling

:Additional information

REQUIREMENTS

%96.0

:General requirement

C₁₆H₁₇KN₂O₄S %102.0

:Identity tests

C B

C A

"

•

:A

.(43 1) "Spectrophotometry in the infrared region

reference spectrum

RS

(/ 1760~)

2

1

2

:B

2

1

TS

TS

/

2

1

1

() :C
 TS (/ 80~)

"General identification tests

(123 1)

.Specific optical reaction

$[\alpha]_D^{20^\circ\text{C}} = +270 \text{ to } / 20$

.+300°

10 0.20 **:Clarity and colour of solution**

. / 10 ° 105 **:Loss on drying**

5.0 - R / 20 **:pH value**

.7.5

/ 1.9 **:Light - absorbing impurities**

350 280

.0.10

. 1000 50 **:Assay**

2.0

° 60 TS / 10.0

.(A) ° 20 . 25

.(B) 10.0

325 1

A TS / 10.0 2.0

.B

$\text{C}_{16}\text{H}_{17}\text{KN}_2\text{O}_4\text{S}$ B A

1 RS

.($\text{C}_{16}\text{H}_{17}\text{KN}_2\text{O}_4\text{S}$) 1.045 RS ($\text{C}_{16}\text{H}_{17}\text{N}_2\text{NaO}_4\text{S}$) (

.0.03 ± 0.62

Additional Requirements for Sterile Benzylpenicillin Potassium

Sterility testing of " :Sterility
 TS (162 1) " antibiotics

Additional requirements for Benzylpenicillin potassium for sterile use

Test for sterility of non - " . (32 5) " preparations injectable
 " :Bacterial endotoxins
 (30 5) " Test for bacterial endotoxins
 1 RS 0.01

BENZYLpenicILLINUM NATRICUM

Benzylpenicillin sodium

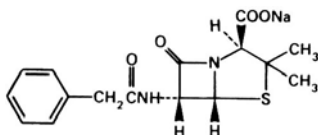
Benzylpenicillin sodium (non - injectable) ()

Benzylpenicillin sodium, sterile

$C_{16}H_{17}N_2NaO_4S$:Molecular formula

356.4 :Relative molecular mass

:Graphic formula



:Chemical name

Sodium (2*S*,5*R*,6*R*)-3,3-dimethyl-7-oxo-6-(2-phenylacetamido)-4-thia-1-azabicyclo[3.2.0]heptane-2-carboxylate; sodium [2*S*-(2*α*,5*α*,6*β*)]-3,3-dimethyl-7-oxo-6-[(phenylacetyl)amino]-4-thia-1-azabicyclo[3.2.0]-heptane-2-carboxylate; CAS Reg. No. 69-57-8.

.R R 0.5
:Description
:Solubility
:Category
:Storage
 .° 25
:Labelling

:Additional information

%0.96.0 **.General requirement**
 C₁₆H₁₇N₂NaO₄S %102.0

:Identity tests

	C	B	C	A	•
	"	"	"	"	:A
reference spectrum	(43	1	)	"	Spectrophotometry in the infrared region
	RS				
(/ 1760~)	2		1	2	:B
		1			TS
TS /		2	1		2
	1				
General	"				:C
() B			(123	1	) "identification tests
	.TS (/ 60~)				

Additional requirements for Benzylpenicillin potassium for sterile use

Test for sterility of non -

(32 5) "in jectable preparations

:Bacterial endotoxins

(30 5) "Test for bacterial endotoxins

1 RS

0.01

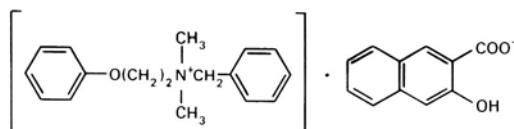
BEPHENII HYDROXYNAPHTHOAS

Bephenium hydroxynaphthoate

$C_{28}H_{29}NO_4$:Molecular formula

443.5 :Relative molecular mass

:Graphic formula



:Chemical name

Benzyldimethyl(2-phenoxyethyl)ammonium 3-hydroxy-2-naphthoate (1:1); *N,N*-dimethyl-*N*-(2-phenoxyethyl)benzenemethanaminium salt with 3-hydroxy-2-naphthalenecarboxylic acid (1:1); CAS Reg. No. 3818-50-6.

:Description

R

R

R

:Solubility

.TS (/ 750~)

50

:Category

:Storage

:Additional information

REQUIREMENTS

%99.0

:General requirement

$C_{28}H_{29}NO_4$ %101.0

:Identity tests

C B A •
" :A

(43 1) "Spectrophotometry in the infrared region

reference spectrum

RS

"Related substances " :B

.C 254 B
° 170 :C

30 0.7 **:Chlorides**

TS (/ 130~) 10

(124 1) "Limit test for chlorides "

. / 0.35

. / 2.0 **:Sulfated ash**

. / 10 ° 105 **:Loss on drying**

:Related substances

silica gel R4 (84 1) "Thin-layer chromatography
TS (/ 300~) 1 4 R -1 5

40 :(A) R 3 5
:(C) . 1 0.40 :(B) 1

. 1 RS 0.40

.(365 254)

254 C B A

A . 365

.B

Sodium molybdotungstophosphate TS

.C B A . TS (/ 200)

A

.B

R1 30 0.4 :Assay

Non aqueous " VS (/ 0.1)

.(142 1) A "titration

.C₂₈H₂₉NO₄ 44.35 VS (/ 0.1) 1

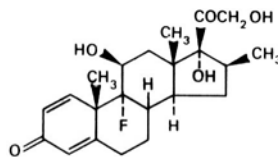
BETAMETHASONUM

Betamethasone

C₂₂H₂₉FO₅ :Molecular formula

392.5 :Relative molecular mass

:Graphic formula



:Chemical name

9-Fluoro-11β,17,21-trihydroxy-16β-methylpregna-1,4-diene-3,20-dione; CAS Reg. No. 378-44-9.

:Description

TS (/ 750~)

:Solubility

.R

:Category

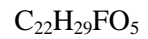
:Storage

REQUIREMENTS

%104.0

%96.0

:General requirement



:Identity tests

. D C B

C B A

•

"

:A

.(43 1) "Spectrophotometry in the infrared region

)

reference spectrum

RS

.(

R

20

2

TS (/ 750~)

20

20

:B

/

10

2

.

20

60

TS

)

0.30

450

1

.(1

2

"Related steroids

"

:C

.B

C A

.B

A

1) "Oxygen flask method

"

:D

0.01)

0.5

7

(132

0.1

0.1

20 VS (/

TS

0.1 TS (/ 1) Sodium alizarin sulfonate

R

/ 5.0

:Specific optical rotation

TS (/ 750~)

10

RS

C₂₂H₂₉FO₅

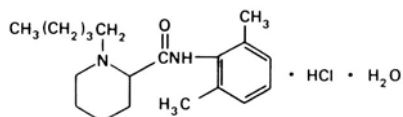
BUPIVACAINI HYDROCHLORIDUM

Bupivacaine hydrochloride

C₁₈H₂₈N₂O, HCl, H₂O :Molecular formula

342.9 :Relative molecular mass

:Graphic formula



:Chemical name

1-Butyl-2',6'-piperocoloxylidide monohydrochloride monohydrate; 1-butyl-*N*-(2,6-dimethylphenyl)-2-piperidinecarboxamide monohydrochloride monohydrate; CAS Reg. No. 73360-54-0.

:Description

TS (/ 750~)

8

25

:Solubility

.R R

:Category

:Storage

REQUIREMENTS

%98.5

:General requirement

C₁₈H₂₈N₂O, HCl %101.0

:Identity tests

"

:A

RS

(43 1) "Spectrophotometry in the infrared region

reference spectrum

TS (/ 7) 20 10 0.15 :B

2 R R

() ° 194

General " B / 2 :C

(121 1) "identification tests

0.25 10 0.25 :Copper

0.2 2 VS (/ 0.05)

sodium 1 TS (/ 100~) 1 R

2 R 10 TS (/ 0.8) diethyldithiocarbamate

3 10

397 TS (/ 80) (II)

5 FeR 1 1.0 () :Iron

30 FeTS (/ 250~)

0.5 (129 1) "Limit test for iron "

/ 10 FeTS

/ 1.0 :Sulfated ash

45 ° 105 :Loss on drying

/ 60 /

.6.0 - 4.5 / 10 pH :pH value

() :Absorption in the ultraviolet region

VS (/ 0.01) / 0.4

. 271 263 350 230

0.58 0.53 263 1

2) 0.48 0.43 271
 (1
 " :**Related substances**
 silica gel R1 (84 1) "Thin-layer chromatography
 R 2 TS (/ 750~)
 1 0.50 :(B) 1 50 :(A)
 . potassium iodobismuthate TS2
 .B A
 R1 30 0.65 :**Assay**
 VS (/ 0.1) TS / 10
 .(142 1) A "Non-aqueous titration "
 .C₁₈H₂₈N₂O , HCl 32.49 VS (/ 0.1) 1

Additional requirements for Bupivacaine hydrochloride for parenteral use
 .(56 4) "Parenteral preparations "

" :**Bacterial endotoxins**
 (30 5) "Test for bacterial endotoxins
 . 1 RS 2.5

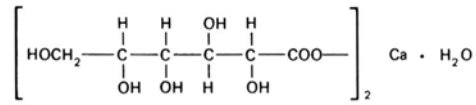
CALCII GLUCONAS

Calcium gluconate

(C₆H₁₁O₇)₂Ca , H₂O :**Molecular formula**

448.4 :**Relative molecular mass**

:**Graphic formula**



:Chemical name

Calcium D-gluconate (1:2) monohydrate; CAS Reg. No. 299-28-5.

: Description

:Solubility

.R R R

:Category

:Storage

:Additional information

REQUIREMENTS

%98.0

:General requirement

(C₆H₁₁O₇)₂Ca , H₂O %102.0

:Identity tests

General

" / 20 :A

.(120 1) "identification tests

TS (/ 25) 1 / 30 1 :B

1 R 0.7 / 0.1 5 :C

() 30 R

10

() Charcoal R

.() ° 200

1.0 **:Heavy metals** ()

1) 3 "Limit test for heavy metals () "

. / 20 (128 1) A (127

2 0.50 :Chlorides and other halides

" 20 TS (/ 130~)

0.5 (124 1) "Limit test for chlorides . /

100 1.0 :Magnesium and alkaline metals ()

(/ 260~) 1 TS (/ 100) 10

4 .TS (/ 25) 50 TS

100 . 200

. 2.0

. 40 5.0 :Sulfates

(125 1) "Limit test for sulfates "

. / 0.1

2 10 0.5 :Glucose and sucrose

15 . 2 TS (/ 70~)

2 5 . 5 (/ 50)

. 1 potassio-cupric tartrate TS

10 0.50 :Clarity and colour of solution

Colour of " Yw1

.(53 1) "liquids

. 20 0.5 :Assay

.(138 1) "Complexometric titrations "

.(C₆H₁₁O₇)₂Ca , H₂O 22.42 VS (/ 0.05) 1

Additional requirement for Calcium gluconate for parenteral use

(36 4) "Parenteral preparations "

"

:Bacterial endotoxins

(30 5) "Test for bacterial endotoxins

. 1 RS

167

CARBO ACTIVATUS

Charcoal , activated ()

:Description

:Solubility

:Category

()

:Storage

()

:Additional information

REQUIREMENTS

:Identity test

70~) 20 1 **:Heavy metals** ()

50 5 TS1 5 TS (/

20 VS (/ 1) 1

.TS () 5

() 50 . 50

"Limit test for heavy metals () "

. / 100 (128 1) A

.R 2 50 5 **:Cyanides**

(/ 1) 2 10 25

R 0.05 25 50 VS
 250~) 10 ° 70 TS (/
 5 20 1 :Sulfides
 TS (/ 250~)
 .TS (/ 80~)
 TS (/ 130~) 25 1 :Zinc
 10 5
 :(B) dithizone method (A)
 3.0 3.0 10 :A
 5.0 TS / / 5.0 TS (/ 60)
 3-2 .R R dithizone / 30
 20) 0.5 9.5 TS (/
 .transmitted
 :B
 .(47 1) "Atomic absorption spectrophotometry"
 100 10 :Fluorescent substances
 .(365) 100
 0.005) 1000 quinine R 0.083
 .VS (/
 :Ethanol-soluble substances
 10 .TS (/ 750~) 50 2
 .Yw1 TS (/ 750~) 50
 .(/ 5) 8 ° 105 40
 5 20 1 :Acid-soluble substances
 10 5 TS (/ 420~)

TS (/ 1760~) 1 .
 . / 35 ()

10 0.25 **:Alkali-soluble coloured matter**
 10 . 1 TS (/ 80~)
 .Gn2

. / 50 **:Sulfated ash**
 150 ° 120 4 **:Loss on drying** . /

40 2 **:Acidity or alkalinity**
 20 . 5
 10 . R .

VS (/ 0.02) 0.25 TS / 0.25

:Adsorbing power
 100 4 ° 120 1 :A
 10 . 10 5 50 R
 5 TS (/ 420~) 1
 potassio - mercuric iodide TS

50 100 :B
 0.250 .TS (/ 1) methylthioninum chloride

20 . 5
 250 25 .
 TS (/ 60) 50 .
 . VS (/ 0.05) 35.0

. 10 50
 30 10
 3 VS (/ 0.1) 100

VS (/ 0.05)

TS

. 0.7

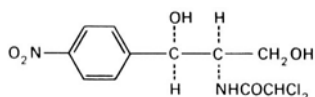
CHLORAMPHENICOLUM

Chloramphenicol

$C_{11}H_{12}Cl_2N_2O_5$:Molecular formula

323.1 :Relative molecular mass

:Graphic formula



:Chemical name

D-threo-(\rightarrow)-2,2-Dichloro-*N*-[β -hydroxy- α -(hydroxymethyl)-*p*-nitrophenethyl]acetamide; [*R*-(*R**,*R**)]-2,2-dichloro-*N*-[2-hydroxy-1-(hydroxymethyl)-2-(4-nitrophenyl)ethyl]acetamide; CAS Reg. No. 56-75-7.

:Description

R TS (/ 750~)

:Solubility

.R R

:Category

:Storage

R

:Additional information

.levorotatory

R

dextrorotatory

()

REQUIREMENTS

%97.0

:General requirement

$C_{11}H_{12}Cl_2N_2O_5$ %02.0

:Identity tests

. C B A •
 " " :A
 .(43 1) "Spectrophotometry in the infrared region
reference spectrum RS

"Related substances " :B
 .C B
 .° 151 :C

R / 50 **:Specific optical rotation**
 . $[a]_D^{20C} = +18.5 \text{ to } +21.5^\circ$
 10 20 0.50
 . 5
:Free chlorides
 1 TS (/ 130~)
 " "

1) "Limit test for chlorides
 . / 0.5 (124

TS (/ 750~) 10 0.50 **:Solution in ethanol**

. / 1.0 **:Sulfated ash**

10 ° 105 **:Loss on drying**
 . /

R 10 0.05 **:pH value**
 .7.5 - 5.0

" **:Related substances**

9 R2 (84 1) "Thin-layer chromatography
 3 5 . R 1 R
 1 20 :(A) TS (/ 750)
 0.20 :(C) 1 0.20 :(B)

254) .B 100 1 5 ° 105 A .(RS
 100 20 :Assay 100 10.0
 $C_{11}H_{12}C_{12}N_2O_5$ 278
 RS
 $.0.03 \pm 0.60$

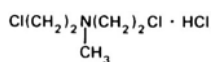
CHLORMETHINI HYDROCHLORIDUM

Chlormethine hydrochloride

$C_5H_{11}C_{12}N$, HCl :Molecular formula

192.5 :Relative molecular mass

:Graphic formula



:Chemical name

2,2'-Dichloro-*N*-methyldiethylamine hydrochloride; 2-chloro-*N*-(2-chloroethyl)-*N*-methylethanamine hydrochloride; CAS Reg. No. 55-86-7.

:Description

TS (/ 750~)

:Solubility

.Antineoplastic

:Category

:Storage

: :Additional information

.hygroscopic

REQUIREMENTS

%98.0

:General requirement

$C_5H_{11}Cl_2N$, HCl %101.0

:Identity tests

potassio-mercuric

0.02

5

0.05

:A

iodide TS

VS (/ 0.1)

1

0.1

:B

TS

1

2

° 110

:C

R

10

0.10

:Clarity of solution

/ 1.0

:Sulfated ash

Determination of water by

"

:Water

1

(145

1

) A

"Karl Fischer method

/ 5.0

5.0 - 3.0 / 2.0

:pH value

/

15

0.20

:Assay

2

15 VS (/ 1)

50 TS (/ 1000~)

3

150

.VS (/ 0.1)

2.5

VS (/ 0.1)

0.1)

1

(/ 45) ferric ammonium sulfate TS

. $C_5H_{11}Cl_2N$, HCl

6.417

VS (/

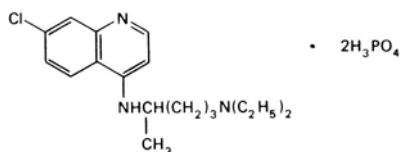
CHLOROQUINI PHOSPHAS

Chloroquine phosphate

$C_{18}H_{26}ClN_3 \cdot 2H_3PO_4$:Molecular formula

515.9 :Relative molecular mass

:Graphic formula



:Chemical name

7-Chloro-4-[[4-(diethylamino)-1-methylbutyl]amino]quinoline phosphate (1:2); *N*⁴-(7-chloro-4-quinolinyl)-*N*¹,*N*¹-diethyl-1,4-pentanediamine phosphate (1:2); CAS Reg. No. 50-63-5.

:Description

TS (/ 750~)

4

:Solubility

.R R

:Category

:Storage

:Additional information

° 215

° 194

.° 215 ° 194

REQUIREMENTS

%98.0

:General requirement

$C_{18}H_{26}ClN_3 \cdot 2H_3PO_4$ %101.0

:Identity tests

VS (/ 0.01)

/ 10

:A

. 360 240 343 329 257
 2) 0.37 0.32, 0.29
 257 1 .(1
 0.86 343 329 0.85 0.77 343
 .0.95
 A TS (/ 130~) 3 / 20 1 :B
 "General identification tests "
 .(122 1)
 .Ts (/ 7) 5 20 0.05 :C
 .R
 .() ° 207
 . / 20 ° 105 :Loss on drying
 .4.5 - 3.5 / 0.10 :pH value
 " :Related substances
 5 R2 (84 1) "Thin-layer chromatography
 . R 1 R 4 R
 1 40 :(A) 5
 . 1 0.80 (B)
 .(254)
 .B A
 R1 20 0.23 :Assay
 .R 20 ()
 " VS (/ 0.1)
 Non - (/ 0.1) 1 .(142 1) A "aqueous titration
 .C₁₈H₂₆ClN₃, 2H₃PO₄ 25.79 VS

Additional requirement for Chloroquine phosphate for parenteral use

(56 4) "Parenteral preparations "

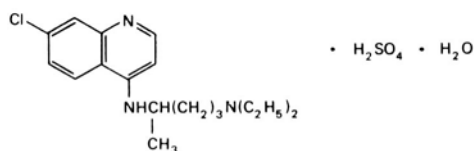
CHLOROQUINI SULFAS

Chloroquine sulfate

$C_{18}H_{26}ClN_3, H_2SO_4, H_2O$:Molecular formula

436.0 :Relative molecular mass

:Graphic formula



:Chemical name

7-Chloro-4-[[4-(diethylamino)-1-methylbutyl]amino]quinoline sulfate (1:1) monohydrate; *N*⁴-(7-chloro-4-quinolinyl)-*N*¹,*N*¹-diethyl-1,4-pentanediamine sulfate (1:1) monohydrate; CAS Reg. No. 6823-83-2.

:Description

TS (/ 750~)

3

:Solubility

.R R

:Category

:Storage

:Additional information

REQUIREMENTS

%98.0

:General requirement

$C_{18}H_{26}ClN_3, H_2SO_4$ % 101.0

:Identity tests

VS (/ 0.01) / 10 :A
329 257 3 360 240
) 0.46 0.39, 0.44 . 343
1 .(1 2
329 0.98 0.83 343 257
.1.03 0.94 343
General " A / 0.05 :B
.(123 1) "identification tests
. 20 0.05 TS (/ 7) 5 :C
.R
.()° 207
. / 1.0 **:Sulfated ash**
0.6) ° 105 **:Loss on drying**
. / 50 / 30 (5
.5.0 - 4.5 / 0.10 **:pH value**
" **:Related substances**
5 R2 (84 1) "Thin-layer chromatography
. R 1 R 4 R
1 40 :(A) 2 5
. 1 0.80 :(B)
A .(254)
.B
R1 20 0.4 **:Assay**
.R 20 ()

Non
0.1) " VS (/ 0.1)
1 .(142 1) A "aqueous titration
.C₁₈H₂₆ClN₃ H₂SO₄ 41.8 VS(/

Additional requirement for Chloroquine sulfate for parenteral use

(56 4) "Parenteral preparations "

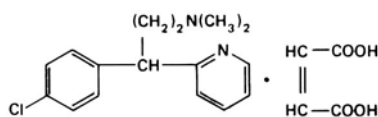
CHLORPHENAMINI HYDROGENOMALEAS

Chlorphenamine hydrogen maleate

C₁₆H₁₉ClN₂, C₄H₄O₄ or C₂₀H₂₃ClN₂O₄ :Molecular formula

390.9 :Relative molecular mass

:Graphic formula



:Chemical name

2-[*p*-Chloro- α -[2-(dimethylamino)ethyl]benzyl]pyridine maleate
(1:1); γ -(4-chlorophenyl)-*N,N*-dimethyl-2-pyridinepropanamine (*Z*)-2-butenedioate (1:1); CAS Reg. No. 113-92-8.

.Chlorphenamine hydrogen maleate

:Other name

:Description

R TS (/ 750~)

4

:Solubility

.R

:Category

chlorphenamine hydrogen maleate

:Storage

:Additional information

REQUIREMENTS

%98.0

:General requirement

C₁₆H₁₉CIN₂, C₄H₄O₄ %101.0

:Identity tests

C B C A •
 " :A
 (43 1) "Spectrophotometry in the infrared region

reference spectrum

RS

TS 1 1 5 1 :B

10 .TS 1 3.5

R 25 R 1 2

4 TS (/ 100~) 0.2 5 0.5 :C

25 R

) ° 132 R
 .(

/ 1.5 **:Sulfated ash**

/ 5.0 ° 105 **:Loss on drying**

.5.2 - 4.0 / 20 **:pH value**

"

:Related substances

5 R2 (84 1) "Thin-layer chromatography

TS (/ 60~) 2 R 3 R

:(A) R 2 2

. 1 0.10 :(B) 1 50

254)

A .(

.B maleic acid

R1 30 0.4 :Assay

" VS (/ 0.1)

0.1) 1 .(142 1) A "Non-aqueous titration

.C₁₆H₁₉ClN₂, C₄H₄O₄ 19.54 VS (/

Additional requirements for Chlorphenamine hydrogen maleate for parenteral use

(56 4) "Parenteral preparations "

"

:Bacterial endotoxins

(30 5) "Test for bacterial endotoxins

. 1 RS

8.8

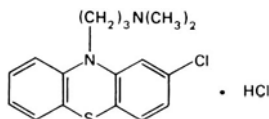
CHLORPROMAZINI HYDROCHLORIDUM

Chlorpromazine hydrochloride

C₁₇H₁₉ClN₂S, HCl :Molecular formula

355.3 :Relative molecular mass

:Graphic formula



:Chemical name

2-Chloro-10-[3-(dimethylamino)propyl]phenothiazine mono-hydrochloride; 2-chloro-*N,N*-dimethyl-10*H*-phenothiazine-10-propanamine monohydrochloride; CAS Reg. No. 69-09-0.

:Description

R TS (/ 750~) 0.4 :Solubility
 .R
 :Category
 :Storage
 :Additional information

REQUIREMENTS

%98.0 :General requirement
 $C_{17}H_{19}ClN_2S$, HCl %101.0

:Identity tests

	D	C	B	A	•
			"		:A
	(43	1	)	"Spectrophotometry in the infrared region	
reference spectrum	RS				
"Thin-layer chromatography			"		:B
-2	10		Kieselguhr R1	(84	1)
		R	85	macrogol 400 R	5 R
2					
.R	- 2		R1	100	R
1	2.0	:(A)	R	2	2
	1	RS		2.0	:(B)
(365)					
TS /				2	
	A				

.B
 " B / 0.1 :C
 .(121 1) "General identification tests
 .° 196 :D
 . / 1.0 :Sulfated ash
 . / 5.0 ° 105 :Loss on drying
 .5.0 - 4.5 / 0.10 :pH value
 " :Related substances
 80 R2 (84 1) "Thin-layer chromatography
 . R 10 R 10 R
 95 2 10
 1 20 :(A) R 5 R
 . 1 0.50 :(B)
 .(254)
 .B (A)
 10 R 200 0.7 :Assay
 TS / 3 TS /
 "Non aqueous titration " VS (/ 0.1)
 35.53 VS (/ 0.1) 1 .(142 1) A
 .C₁₇H₁₉ClN₂S, HCl

Additional requirements for Chlorpromazine hydrochloride for parenteral use

.(56 4) "Parenteral preparation "

"

:Bacterial endotoxins

(30 5) "Test for bacterial endotoxins

. 1 RS 6.9

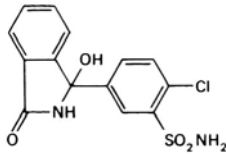
CHLORTALIDONUM

Chlortalidone

$C_{14}H_{11}ClN_2O_4S$:Molecular formula

338.8 :Relative molecular mass

:Graphic formula



:Chemical name

2-Chloro-5-(1-hydroxy-3-oxo-1-isoindolyl)benzenesulfonamide; 2-chloro-5-(2,3-dihydro-1-hydroxy-3-oxo-1H-isoindol-1-yl)benzenesulfonamide; CAS Reg. No. 77-36-1.

:Description

R

R

R

:Solubility

.TS (/ 750~)

:Category

:Storage

REQUIREMENTS

%98.0

:General requirement

$C_{14}H_{11}ClN_2O_4S$ %102.0

:Identity tests

C B

B A

•

"

:A

(43 1) "Spectrophotometry in the infrared region

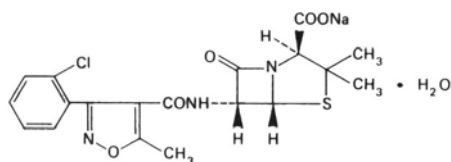
reference spectrum

RS

$C_{19}H_{17}ClN_3NaO_5S, H_2O$:Molecular formula

475.9 :Relative molecular mass

:Graphic formula



:Chemical name

Sodium (2*S*,5*R*,6*R*)-6-[3-(*o*-chlorophenyl)-5-methyl-4-isoxazolecarboxamido]-3,3-dimethyl-7-oxo-4-thia-1-azabicyclo[3.2.0]heptane-2-carboxylate monohydrate; sodium [2*S*-(2*α*,5*α*,6*β*)]-6-[[[3-(2-chlorophenyl)-5-methyl-4-isoxazolyl]carbonyl]amino]-3,3-dimethyl-7-oxo-4-thia-1-azabicyclo[3.2.0]heptane-2-carboxylate monohydrate; monosodium [3-(*o*-chlorophenyl)-5-methyl-4-isoxazolyl]penicillin monohydrate; CAS Reg. No. 7081-44-9.

:Description

500 TS (/ 750~)

30

2.5

:Solubility

.R

:Category

:Storage

.° 25

:Labelling

:Additional information

%90.0

:General requirement

$C_{19}H_{18}ClN_3O_5S$

:Identity tests

.C B

C A

$\circ 60$ TS / 10
 $(A) \circ 20$ 25
 (B) 10.0
 343 1
 .B A TS / 10 2.0
 B A $C_{19}H_{18}ClN_3O_5S$
 RS
 $.0.02 \pm 0.4$

Additional Requirements for Sterile Cloxacillin Sodium

"Sterility testing of antibiotics " :Sterility
 TS (162 1)

Additional requirements for Cloxacillin sodium for sterile use

Test for sterility of non-injectable " (32 5) "preparations
 " :Bacterial endotoxins
 (30 5) "Test for bacterial endotoxins
 . 1 RS 40

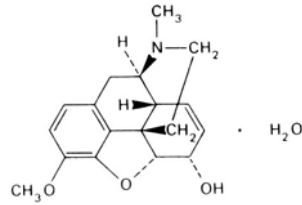
CODEINUM MONOHYDRICUM

Codeine monohydrate

$C_{18}H_{21}NO_3, H_2O$:Molecular formula

317.4 :Relative molecular mass

:Graphic formula



:Chemical name

7,8-Didehydro-4,5 α -epoxy-3-methoxy-17-methylmorphinan-6 α -ol monohydrate; CAS Reg. No. 6059-47-8.

:Description

.R TS (/ 750~)

:Solubility

:Category

:Storage

:Additional information

REQUIREMENTS

%99.0

:General requirement

$C_{18}H_{21}NO_3$ %101.0

:Identity tests

1 TS (/ 1760~)

1 5 :A

1

TS (/ 25)

.TS (/ 130~)

TS /Selenious acid

0.5 1 :B

. $^{\circ}$ 156

:C

750~)

/ 20

:Specific optical rotation

. $[a]_D^{20^{\circ}} = -142$ to -146°

TS (/

10 0.050 :Clarity and colour of solution

/ 50 ° 105 :Sulfated ash

R / 5.0 :Loss on drying

60

:pH value

.9.0

"

72 R1 (84 1) "Thin-layer chromatography

260~) 6 R 30 TS (/ 750~)

4 10 . TS (/

50 :(A) TS (/ 750) 1 VS (/ 0.01)

. 1 0.66 :(B) 1

TS2

A

.B

10 R1 30 0.25 :Assay

VS (/ 0.1) R

1 .(142 1) A "Non-aqueous titration "

.C₁₈H₂₁NO₃ 29.94 VS (/ 0.1)

CODEINI PHOSPHAS

Codeine phosphate

hemihydrate

Sesquihydrate

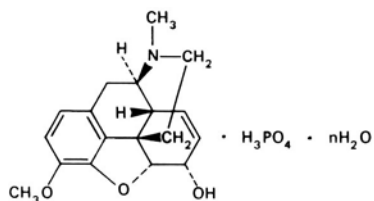
C₁₈H₂₁NO₃, () C₁₈H₂₁NO₃, H₃PO₄, ½H₂O :Molecular formula

424.4 () 406.4 :Relative molecular mass

() H₃PO₄, 1½H₂O

(

:Graphic formula



$n = \frac{1}{2}$ (hemihydrate)

$n = 1\frac{1}{2}$ (sesquihydrate)

:Chemical name

7,8-Didehydro-4,5α-epoxy-3-methoxy-17-methylmorphinan-6α-ol phosphate (1:1) (salt) hemihydrate; CAS Reg. No. 41444-62-6 (hemihydrate). 7,8-Didehydro-4,5α-epoxy-3-methoxy-17-methylmorphinan-6α-ol phosphate (1:1) (salt) sesquihydrate; CAS Reg. No.5913-76-8 (sesquihydrate).

:Description

TS (/ 750~)

4

:Solubility

.R

R

:Category

:Storage

:Labelling

:Additional information

REQUIREMENTS

%98.0

:General requirement

C₁₈H₂₁NO₃, H₃PO₄ %101.0

:Identity tests

1	TS (/ 1760~)	1	5	:A
1			TS (/ 25)	
			.TS (/ 130~)	
TS	/selenious acid	0.5	1	:B
B	TS (/ 100~)	/	20	:C
1)	"General identification tests		"	
			.(122	
TS (/ 100~)	1	/ 0.2	5	:D
.° 105	TS (/ 750~)			
		.(	)° 156	
	/ 20			
		:Specific optical rotation		
			. $[a]_D^{20\text{°C}} = -98 \text{ to } -120\text{°}$	
20	TS (/ 130~)	2	0.70	:Chlorides
Limit test for		"		
	. / 0.35		(124	1) "chlorides
"		20	0.50	:Sulfates
. / 1	(125	1	) "Limit test for sulfates	
10	0.40			
"		:Clarity and colour of solution		
		Yw2		
		.(53	1) "Colour of liquids	
)	° 105			
/ 50			. / 30	(
			. / 70	
	.5.0 - 4.2	0.04		:pH value

72
260~)

4
50

TS2

R1

6 R

(/ 750~)

1

TS2

A

R1

30

0.35

VS (/ 0.1)

0.1)

1

(142 1) A

.C₁₈H₂₁NO₃, H₃PO₄

TS (/ 750~)

10

VS (/ 0.01)

0.66

:(B)

1

TS (/

Thin layer chromatography

TS (/

Assay

Non-aqueous titration

39.74 VS (/

COFFEINUM

Caffeine

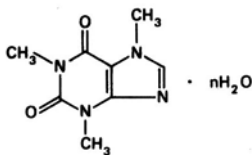
Caffeine anhydrous

Caffeine monohydrate

() C₈H₁₀N₄O₂, H₂O () C₈H₁₀N₄O₂ :Molecular formula

() 212.2 () 194.2 :Relative molecular mass

:Graphic formula



n = 0 (anhydrous)
n = 1 (monohydrate)

:Chemical name

3,7-Dihydro-1,3,7-trimethyl-1*H*-purine-2,6-dione; CAS Reg. No. 58-08-2 (anhydrous). 3,7-Dihydro-1,3,7-trimethyl-1*H*-purine-2,6-dione monohydrate; CAS Reg. No. 5743-12-4 (monohydrate).

:Description

TS (/ 750~)

100

60

:Solubility

.R

R

:Category

:Storage

:Labelling

:Additional information

REQUIREMENTS

%101.0

%98.0

:General requirement

C₈H₁₀N₄O₂

:Identity tests

. D C B

A

•

"

:A

.(43 1) "Spectrophotometry in the infrared region

.° 80

.reference spectrum

RS

TS (/ 250~)

1

10

:B

1

TS (/ 60~)

0.5

3-2

TS (/ 100~)

.TS (/ 80~)

TS

:C

TS (/ 70~)

.TS (/ 80~) :D
 ° 236 ° 80
 10 0.50 :Clarity and colour of solution
 . / 1.0 :Sulfated ash
 () ° 80 :Loss on drying
 . / 90 / 50 . / 5.0
 .6.6-4.8 R / 10 :pH value
 " :Related substances
 4 R2 (84 1) "Thin-layer chromatography
 TS (/ 260~) 1 R 3 R -1
 :(A) R 4 R 6 2 .
 . 1 0.20 :(B) 1 20
 .B 5 A 10
 .(254) .B A
 20 R 10 0.18 :Assay
 " VS (/ 0.1)
 1 .(142 1) A "Non-aqueous titration
 .C₈H₁₀N₄O₂ 19.42 VS (/ 0.1)

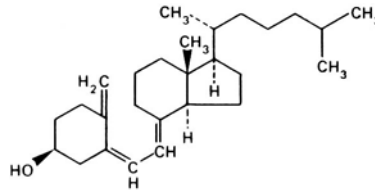
COLECALCIFEROLUM

Colecalciferol

C₂₇H₄₄O :Molecular formula

384.7 :Relative molecular mass

:Graphic formula



:Chemical name

(5Z,7E)-9,10-Secocholesta-5,7,10(19)-trien-3β-ol; CAS Reg.

No. 67-97-0.

Cholecalciferol

:Other name

:Description

R TS (/ 750~)

:Solubility

.R

:Category

:Storage

:Additional information

REQUIREMENTS

%95.0

:General requirement

.C₂₇H₄₄O %105.0

:Identity tests

.C B
"

A

•

:A

.(43 1) "Spectrophotometry in the infrared region

reference spectrum

RS

TS		4	R		1	1	:B
	0.1 R		0.3	R		5	:C
						TS (/ 1760~)	
	/ 10						
							:Specific optical rotation
							[α] _D ²⁰ °C = +105 to +112° TS (/ 750~)
TS (/ 750~)		2	0.04				:7-Dehydrocholesterol
	digitonin TS				1		-7
							12
					20		:Assay
100		5.0		100			TS (/ 750~)
				1			
RS						C ₂₇ H ₄₄ O	265
	.0.03 ± 0.48						

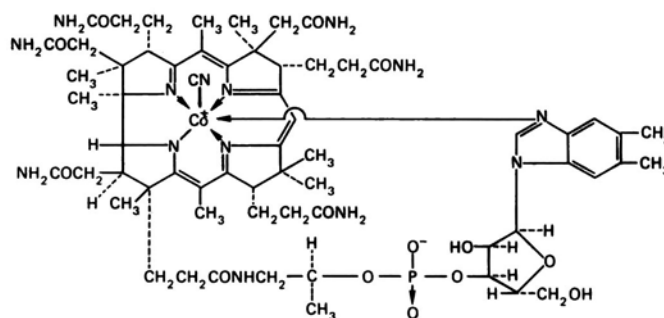
CYANOCOBALAMINUM

Cyanocobalamin

C₆₃H₈₈CoN₁₄O₁₄P :Molecular formula

1355 :Relative molecular mass

:Graphic formula



:Chemical name

α -(5,6-Dimethylbenzimidazol-2-yl)cobamide cyanide; CAS
Reg. No. 68-19-9.

.B₁₂ **:Other name**

:Description

TS (/ 750~)

80 **:Solubility**

.R R R

:Category

:Storage

:Additional information

REQUIREMENTS

%96.0

:General requirement

C₆₃H₈₈CoN₁₄O₁₄P %102.0

:Identity tests

230 / 20 :A

550 361 278 3 600

1.90 1.70 278 361 1

.3.45 3.15 550 361

2 R 10 1 :B

TS (/ 100~)

TS / 1 3

0.5 () TS (/ 80~)

1-nitroso-2- 0.5 TS (/ 60~) 0.5 R

0.5 TS (/ 2) disulfonate naphthol-3,6-disodium

TS (/ 250~)

10 20 **:Clarity of solution**

) ° 105 :Loss on drying
 . / 120 (5 0.6
 20 1 :Pseudocyanocobalamin
 R R 5
 2.5 . 1
) 2.5 TS (/ 570~
 VS (/ 0.002) 1.5 .(
 . 250
 .(53 1) "Colour of liquids "
 "
 :Related substances
 R1 R1 (84 1) "Thin-layer chromatography
 3 R 10 R 15 Kieselguhr
 . TS (/ 100~
 :(B) 1 5.0 :(A) 3 10
 . 1 0.20
 A .
 A .B
 .C
 . 1000 0.03 :Assay
 361 1
 ($E_{1\text{cm}}^{1\%} = 207$) 20.7 : $\text{C}_{63}\text{H}_{88}\text{CoN}_{14}\text{O}_{14}\text{P}$

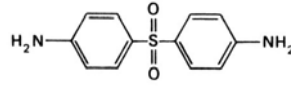
DAPSONUM

Dapsone

$\text{C}_{12}\text{H}_{12}\text{N}_2\text{O}_2\text{S}$:Molecular formula

248.3 :Relative molecular mass

:Graphic formula



:Chemical name

4,4'-Sulfonyldianiline; 4,4'-sulfonylbis[benzenamine]; 4,4'-diaminodiphenylsulfone; CAS Reg. No. 80-08-0.

:Description

TS (/ 750~)

30

7000

:Solubility

.R

:Category

:Storage

:Additional information

REQUIREMENTS

%101.0

%99.0

:General requirement

C₁₂H₁₂N₂O₂S

:Identity tests

R / 5.0 :A

295 260 350 230

1.20 0.72 295 260 1

"Related substances " :B

.B A

" 0.1 :C

(119 1) "General Identification tests

.° 178 :D

. / 1.0 **:Sulfated ash**

. / 15 ° 105 **:Loss on drying**
 " **:Related substances**
 R3 (84 1) "Thin-layer chromatography
 . R 4 R 8
 10 :(A) R 5 10
 0.15 :(C) 1 RS 10 :(B) 1
 0.10 :(E) 1 20 :(D) 1
 . 4,4'-thiodianiline RS . 1 4,4'-thiodianiline RS
 .
 ° 100 .TS2 4-dimethylaminocinnamaldehyd
 A C .
 .E .D
 1) "Nitrite titration " **:Assay**
 15 15 0.25 (133
 1 .VS (/ 0.1) TS (/ 70~)
 .C₁₂H₁₂N₂O₂S 12.42

DEXAMETHASONI ACETAS

Dexamethasone acetate

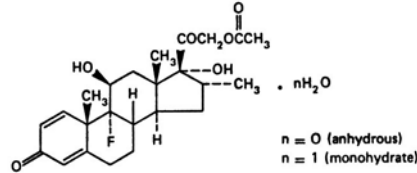
anhydrous

monohydrate

.() C₂₄H₃₁FO₆, H₂O () C₂₄H₃₁FO₆ **:Molecular formula**

.() 452.5 () 434.5 **:Relative molecular mass**

:Graphic formula



:Chemical name

9-Fluoro-11 β ,17,21-trihydroxy-16 α -methylpregna-1,4-diene-3,20-dione 21-acetate; 21-(acetyloxy)-9-fluoro-11 β ,17-dihydroxy-16 α -methylpregna-1,4-diene-3,20-dione; CAS Reg. No. 1177-87-3 (anhydrous).

9-Fluoro-11 β ,17,21-trihydroxy-16 α -methylpregna-1,4-diene-3,20-dione 21-acetate monohydrate; 21-(acetyloxy)-9-fluoro-11 β ,17-dihydroxy-16 α -methylpregna-1,4-diene-3,20-dione monohydrate; CAS Reg. No. 55812-90-3 (monohydrate).

:Description

TS (/ 750~)

40

:Solubility

.R

R

:Category

:Storage

:Labelling

REQUIREMENTS

%96.0

:General requirement

$C_{24}H_{31}FO_6$ % 104.0

:Identity tests

.E D C B

E C B A

"

•
:A

.(43 1) "Spectrophotometry in the infrared region

RS

reference spectrum

<i>reference</i>	RS	<i>spectrum</i>
20	2 TS (/ 750~)	20 22 :B
10		2 .
20	° 60) 0.42 423	TS / 1
	."Related steroids	(1 2 ": :C
	.B	C A
	.B	A
1	) "Oxygen flask method	" :D
(/ 0.01)	0.5	7 (132
0.1	0.1	20 VS
TS Zirconyl nitrate	0.1	TS (/ 1)
5	VS (/ 0.5) /	2 0.05 :E
1	TS (/ 700~)	2 .
	.()	
/ 10		:Specific optical rotation
		$[a]_D^{20^\circ} = +82 \text{ to } +88^\circ \text{ R}$
/ 5.0	0.1	:Sulfated ash
° 100		:Loss on drying
	0.5	.(5 0.6)
/ 35		0.15 / 0.5
		/ 45
"		:Related steroids
R1	(84 1	) "Thin-layer chromatography

1.2 R 8 R 15 R 77
 R 9 1 15 1
 15 :(B) 1 15 :(A) R 1
 :(C) 2 1 RS
 0.15 :(D) 1 B A
 .B A 1
 10 ° 105
 TS /
 .D A
 .Assay
 TS (/ 750~) 20
 20 . 100
 25 10.0 . 100 TS (/ 750~)
 TS / 2.0
 TS / 2.0 .R
 .R
 ° 30 1
 1 . 25 TS (/ 750~)
 10 525
 C₂₄H₃₁FO₆ . TS (/ 750~)
 . RS

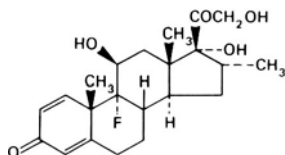
DEXAMETHASONUM

Dexamethasone

C₂₂H₂₉FO₅ :Molecular formula

392.5 :Relative molecular mass

:Graphic formula



:Chemical name

9-Fluoro-11β,17,21-trihydroxy-16α-methylpregna-1,4-diene-3,20-dione; CAS Reg. No. 50-02-2.

:Description

TS (/ 750~)

:Solubility

.R

.Adrenoglucocorticoid

:Category

:Storage

REQUIREMENTS

%96.0

:General requirement

C₂₂H₂₉FO₅ %04.0

:Identity tests

.D C B

C B A

"

•

:A

.(43 1) "Spectrophotometry in the infrared region

reference spectrum

RS

.RS

20 2 TS (/ 750~)

20 20 :B

/ 10 2

20 ° 60 TS

2) 0.42 423 1

.(1
 "Related steroids " :C
 .B C A
 .B A
 1) "Oxygen flask method " :D
 0.01) 0.5 7 (132
 0.1 0.1 . 20 TS (/
 0.1 sodium alizarinsulfonate TS (/ 1)
 Zirconyl nitrate TS
 R / 10 :Specific optical rotation
 . [α]_D^{20°C} = +72 to +80°
 . / 5.0 0.1 :Sulfated ash
) ° 100 :Loss on drying
 . / 5.0 (5 0.6
 " :Related steroids
 R1 (84 1) "Thin-layer chromatography
 1.2 R 8 R 15 R1 77
 R 9 1 15 :(A) R 1
 15 :(B) 1 15 :(A) R 1
 :(C) 2 1 RS
 1 0.15 :(D) 1 B A
 .B A
 10 ° 105
 TS /
 .D A
 :Assay

TS (/ 750~) 20
 TS (/ 750~) 20 . 100
 25 10.0 . 100
 TS / 2.0
 TS / 2.0 .R
 .R
 .° 30 1
 1 25 TS (/ 750~)
 10 525
 C₂₂H₂₉FO₅ . TS (/ 750~)
 . RS

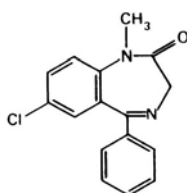
DIAZEPAMUM

Diazepam

C₁₆H₁₃ClN₂O :Molecular formula

284.7 :Relative molecular mass

:Graphic formula



:Chemical name

7-Chloro-1,3-dihydro-1-methyl-5-phenyl-2H-1,4-benzodiazepin-2-one; CAS Reg. No. 439-14-5.

:Description

TS (/ 750~)

:Solubility

.R

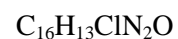
.Tranquilizer :Category

:Storage

REQUIREMENTS

%101.0 %99.0

:General requirement



:Identity tests

.D C B

D A

•

low-actinic glassware

C B

:

30

"

:A

.(43 1) "Spectrophotometry in the infrared region

.reference spectrum

RS

VS (/ 0.1)

/ 8.0

:B

286 241

350 230

0.38 0.80

286 241

1

.(1

2

)

VS (/ 0.1)

/ 0.030

:C

362

400 325

2

) 0.44

1

.(1

1) "Oxygen flask method

"

:D

TS (/ 80~)

5

20

(132

2

TS (/ 100~)

"General identification tests

"

A

.(121)

.° 135-131 :Melting range
 1.0 :Heavy metals ()
 (127 1) 3 "Limit test for heavy metals"
 . / 20 (128 1) A
 . / 1.0 :Sulfated ash
) ° 50 :Loss on drying
 . / 5.0 (5 0.6
 " :Related substances
 R2 (84 1) "Thin-layer chromatography
 . 24 R () 1
 0.20 :(A) R 10
 5-chloro-2- -2- -5 0.10 :(B) 1
 . 1 methlaminobenzophenone RS
 A .(254)
 .B
 R1 30 0.55 :Assay
 VS (/ 0.1)
 1 .(142 1) A "Non- aqueous titration"
 .C₁₆H₁₃ClN₂O 28.47 VS (/ 0.1 (

Additional requirements for Diazepam for parenteral use

.(56 4) "Parenteral preparations"
 " :Bacterial endotoxins
 (30 5) "Test for bacterial endotoxins"
 . 1 RS 11.6

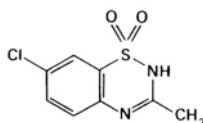
DIAZOXIDUM

Diazoxide

$C_8H_7ClN_2O_2S$:Molecular formula

230.7 :Relative molecular mass

:Graphic formula



:Chemical name

7-Chloro-3-methyl-2H-1,2,4-benzothiadiazine 1,1-dioxide;
CAS Reg. No. 364-98-7.

:Description

R

R

:Solubility

.TS (/ 750~)

R

.Antihypertensive

:Category

:Storage

REQUIREMENTS

%101.0

%98.0

:General requirement

$C_8H_7ClN_2O_2S$

:Identity tests

"

:A

.(45 1) "Spectrophotometry in the infrared region

RS

.
reference spectrum

. "Related substances

"

:B

.C

B

. / 1.0

:Sulfated ash

5.0 ° 105 :Loss on drying . /

"

17 R2 (84 1) "Thin-layer chromatography

TS (/ 260~) 3 R 4 R

(/ 0.1) 10 .

0.15 :(B) 1 15 :(A) VS

. 1 RS 0.15 :(C) 1

A .(254)

.B

2 100 0.45 :Assay

VS (/ 0.1) 1 R

23.07 VS (/ 0.1) 1 .

.C₈H₇ClN₂O₂S

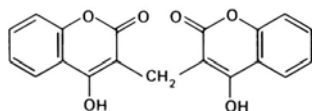
DICOUMAROLUM

Dicoumarol

C₁₉H₁₂O₆ :Molecular formula

336.3 :Relative molecular mass

:Graphic formula



:Chemical name

3,3'-Methylenebis[4-hydroxycoumarin]; 3,3'-methylenebis[4-hydroxy-2*H*-1-benzopyran-2-one]; CAS Reg. No. 66-76-2.

	VS (/ 0.1)		azo violet TS
B	"Non-aqueous titration	"	
	16.82 VS (/ 0.1)		1 .(142 1)
			.C ₁₉ H ₁₂ O ₆

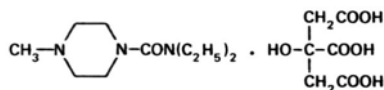
DIETHYLCARBAMAZINI DIHYDROGENOCITRAS

Diethylcarbamazine dihydrogen citrate

C₁₆H₂₉N₃O₈ C₁₀H₂₁N₃O, C₆H₈O₇ :Molecular formula

391.4 :Relative molecular mass

:Graphic formula



:Chemical name

N,N-Diethyl-4-methyl-1-piperazinecarboxamide citrate (1 : 1);
N,N-diethyl-4-methyl-1-piperazinecarboxamide 2-hydroxy-1,2,3-propanetri-
 carboxylate (1 : 1); CAS Reg. No. 1642-54-2.

		:Description
TS (/ 750~)	35	:Solubility
		.R R
	.Filaricide	:Category
		:Storage

:Additional information

REQUIREMENTS

:General requirement

$C_{10}H_{21}N_3O$, $C_6H_8O_7$ %101.0 %98.0

:Identity tests

	.C	B	D	A	•
4 TS (/ 80~)		1		25	0.05 :A
			2	R	

" blank R

(43 1) "Spectrophotometry in the infrared region

RS

reference spectrum

VS (/ 1)	10	10	0.5	:B
	.R	5	4	

.C

R	1	
		5

.TS (/ 750~)

° 105 R TS (/750~)

1-diethylcarbamoyl-4-

-4- 1) ° 152

(methylpiperazine ethiodide

" B B :C

(121 1) "General identification tests

° 137 ° 80 :D

1.0 **:Heavy metals** ()

(127 1) 1 "Limit test for heavy metals "

. / 20 (128 1) A
 . / 1.0 :Sulfated ash
 Determination of water by " :Water
 1 (145 1) A the Karl Fischer method
 . / 10
 .4.5 - 3.5 / 30 :pH value
 " :N-Methylpiperazine -N
 R1 (84 1) "Thin-layer chromatography
 1 R 3 TS (/ 750~) 6
 50 :(A) R 5
 1 N-Methylpiperazine R -N 0.050 :(B) 1
 3
 TS (/ 60) 100 97 TS (/ 60)
 B
 .A
 R1 30 0.35 :Assay
 Non - " VS (/ 0.1)
 (/ 0.1) 1 .(142 1) A "aqueous titration
 .C₁₀H₂₁N₃O, C₆H₈O₇ 39.14 VS

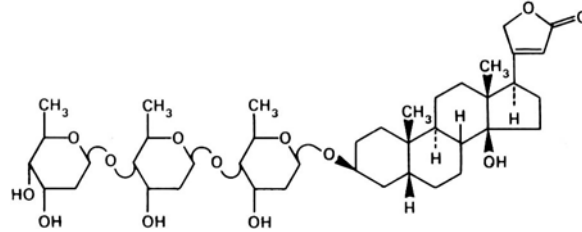
DIGITOXINUM

Digitoxin

C₄₁H₆₄O₁₃ :Molecular formula

765.0 :Relative molecular mass

:Graphic formula



:Chemical name

3β-[(O-2,6-Dideoxy-β-D-ribo-hexopyranosyl-(1→4)-O-2,6-dideoxy-β-D-ribo-hexopyranosyl-(1→4)-2,6-dideoxy-β-D-ribo-hexopyranosyl)-oxy]-14-hydroxy-5β-card-20(22)-enolide; CAS Reg. No. 71-63-6.

:Description

TS (/ 750~)

:Solubility

.R

.Cardiotonic

:Category

:Storage

:Additional information

REQUIREMENTS

%105.0

%95.0

:General requirement

C₄₁H₆₄O₁₃

:Identity tests

.D C B

D B A

•

"

:A

.(43 1) "Spectrophotometry in the infrared region

RS

. reference spectrum

"Thin-layer chromatography

"

:B

90 R

10

Kieselguhr R1

(84 1)

15 . 5 R

50 . 5 2

.R 4 R 50 xylene R

RS :(B) :(A) 3

R R 50

.R 5 1 10

20 ° 115 . 12

750~) 100 R 25 15

tosylchloramide sodium R / 30 1 TS (/

. 5 ° 115

A .(365)

1 . TS (/ 750~) 1 1 :C

VS (/ 1) 1 TS /

100 TS (/ 25) 0.5 2 1 :D

TS (/ 1760~) 1 R

.(allied glycosides)

R / 10

:Specific optical rotation

$[a]_D^{20^\circ} = +16.5 \text{ to } 18.5^\circ$

. / 1.0 **:Sulfated ash**

20 ° 105 **:Loss on drying**

. /

25 R 1 5 **:Gitoxin**

.R TS (/ 250~)

325 1 . 1
R TS (/ 250)
. (1 2) 0.28
25 R 0.05 :Assay
5.0 .R 100 5.0
TS 15 25
1 30 .R 25
15 490
C₄₁H₆₄O₁₃ .R 25 TS
RS

Additional requirements for Digoxin for parenteral use

(56 4) "Parenteral preparations"
" :Bacterial endotoxins
(30 5) "Test for bacterial endotoxins"
. 1 RS 111.0

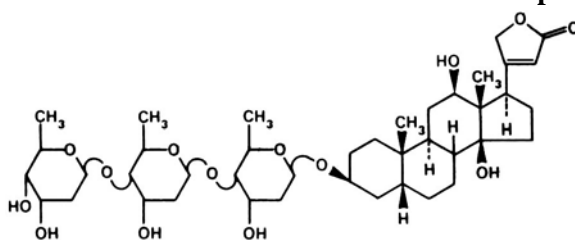
DIGOXINUM

Digoxin

C₄₁H₆₄O₁₄ :Molecular formula

781.0 :Relative molecular mass

:Graphic formula



:Chemical name

3β-[(O-2,6-Dideoxy-β-D-ribo-hexopyranosyl)-(1→4)-O-2,6-dideoxy-β-D-ribo-hexopyranosyl-(1→4)-2,6-dideoxy-β-D-ribo-hexopyranosyl)-oxy]-12β,14-dihydroxy-5β-card-20(22)-enolide; CAS Reg. No. 20830-75-5.

:Description

R

R

:Solubility

.R

TS (/ 750~)

.Cardiotonic

:Category

:Storage

: Additional information

REQUIREMENTS

%103.0

%95.0

:General requirement

C₄₁H₆₄O₁₄

:Identity tests

.D C B

D B A

"

•

:A

.(43 1) "Spectrophotometry in the infrared region

reference spectrum

RS

"Related substances

"

:B

.B

A

1

TS (/ 750~)

1

1

:C

VS (/ 1)

1 TS /

100 TS (/ 25)

0.5

2

1

:D

TS (/ 1760~)

1

R

(allied glycosides)

R / 10 :Specific optical rotation
 $[a]_{546 \text{ nm}}^{20 \text{ }^\circ\text{C}} = +13.6 \text{ to } 14.2^\circ$

/ 1.0 :Sulfated ash

) :Loss on drying

/ 10 (5 0.6

TS (/ 675~) 1 5 :Gitoxin

TS (/ 250~) 25

352 1 . 1 .R

250~) 2) 0.22 R TS (/
 .(1

" :Related substances

10 Kieselguhr R1 (84 1) "Thin-layer chromatography

. 5 R 90 R

5 15

. 2 .

4 R 50 Xylene R 50

R 1 .R

5.0 :(B) 1 5.0 :(A) R

. 1 RS 0.25 :(C) 1 RS

. 12

25 15 20 ° 115

tosylchloramide sodium R 1 TS (/ 750~) 100 R

. 5 ° 115 / 30

A .(365)

25	R	0.05	:Assay
	5.0	.R	100
TS	15		25
	1	30	.R
	15		490
RS		C ₄₁ H ₆₄ O ₁₄	.R
			25
			TS

Additional requirements for Digoxin for parenteral use

(56	4	) "Parenteral preparations	"
"		:Bacterial endotoxins	
(	30	5	) "Test for bacterial endotoxins
		1	RS
			200.0

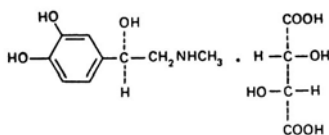
EPINEPHRINI HYDROGENOTARTARAS

Epinephrine hydrogen tartrate

C₁₃H₁₉NO₉ C₉H₁₃NO₃, C₄H₆O₆ :Molecular formula

333.3 :Relative molecular mass

:Graphic formula



:Chemical name

(-)-(R)-3,4-Dihydroxy- α -[(methylamino)methyl]benzyl alcohol L-(+)-tartrate (1:1) (salt); (-)-(R)-4-[1-hydroxy-2-(methylamino)ethyl]-1,2-benzenediol[R-(R*,R*)]-2,3-dihydroxybutanedioate (1:1) (salt); (-)- α -3,4-dihydroxyphenyl- β -(methylamino)ethanol L-(+)-tartrate; CAS Reg. No. 51-42-3.

Adrenalin

)

:Other name

.(

:Description

TS (/ 750~)

3

:Solubility

.R

R

.Sympathomimetic

:Category

:Storage

:Additional information

REQUIREMENTS

%98.0

:General requirement

C₉H₁₃NO₃, C₄H₆O₆ %101.0

:Identity tests

VS (/ 0.01)

/ 0.10

:A

280

350

230

.0.8

1

TS, 3.4

10

1

10

:B

VS (/ 0.1)

0.5

1

VS (/ 0.1)

2

5

.(

levarterenol

)

B

()

:C

1)

"General identification tests

"

.(123

20 0.5 **:Specific optical rotation**
 (/ 100~) Sodium metabisulfite R 0.1
 (C) 1 TS
 5 TS (/ 750~) 5 2
 (5 0.6) .R
 0.5) / 20 3
 . $[a]_D^{20} = -50$ to -53° VS (/
 10 0.1 **:Clarity and colour of solution**
 . / 1.0 **:Sulfated ash**
 0.6) **:Loss on drying**
 . / 5.0 3 R (5
 / 4.0 1 **:Adrenalone**
 2) 0.2 310 VS (/ 0.1)
 .(1
 4 1 10 **:Levarterenol**
 -4- -1.2 1 TS, 9.6
 30 sodium 1.2-naphthoquinone-4-sulfonate, TS (/ 5)
 15 benzalkonium chloride TS1 0.2
 TS 9.6 R
 30
 9.0 R 0.40
 1 R
 .(53 1) "Colour of liquids"
 R1 50 0.3 **:Assay**
 " VS (/ 0.1)
 1 .(142 1) A "Non-aqueous titration"

$C_9H_{13}NO_3$, $C_4H_6O_6$ 33.33 VS (/ 0.1)

Additional requirements for Epinephrine hydrogen tartrate for parenteral use

(56 4)" *Parenteral preparations* "

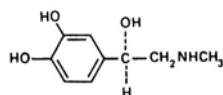
EPINEPHRINUM

Epinephrine

$C_9H_{13}NO_3$:Molecular formula

183.2 :Relative molecular mass

:Graphic formula



:Chemical name

(-)-(R)-3,4-Dihydroxy- α -[(methylamino)methyl]benzyl alcohol; (-)-(R)-4-[1-hydroxy-2-(methylamino)ethyl]-1,2-benzenediol; (-)- α -3,4-dihydroxyphenyl- β -methylaminoethanol; CAS Reg. No. 51-43-4.

Adrenalin) . :Other name

:Description

TS (/ 750~)

:Solubility

.R R R

.Sympathomimetic :Category

:Storage

:Additional information

REQUIREMENTS

%101.0	%98.5			:General requirement	
					C ₉ H ₁₃ NO ₃
				:Identity tests	
	VS (/ 0.01)		/ 0.030		:A
	280		350 230		
			.045		1
	.(1		2)
10	1 VS (/ 0.01)		10 10		:B
0.5			TS, 3.4		
		2 . 5		VS (/ 0.1)	
levarterenol	)		1		VS (/ 0.1)
			.(
	/ 40			:Specific optical rotation	
				. [α] _D ^{20°C} = -50 to -53° VS (/ 1)	
			/ 1.0	:Sulfated ash	
0.6	)			:Loss on drying	
. / 10		18 R	(5		
.7.5		/ 5.0		:pH value	
	/ 2.0	1		:Adrenalone	
2	) 0.2	310		VS (/ 0.1)	
			.(1		
4	TS (/ 5)	1	5.0	:Levarterenol	
	1		TS, 9.6		
sodium 1.2-naphthoquinone-4-sulfonate	TS (/ 5)		-4-		-1.2

15	TS1		0.2	30	
		TS, 9.6			R
		0.40	.		30
		1	R		9.0 R
		(53	1	) "Colour of liquids	"
R1		30		0.35	:Assay
Non -	"			VS (/ 0.1)	
(/ 0.1)		1	(142	1	) A "aqueous titration
				.C ₉ H ₁₃ NO ₃	18.32 VS

Additional requirements for Epinephrine for parenteral use

(56	4	) "Parenteral preparations	"
"		:Bacterial endotoxins	
(	30	5	) "Test for bacterial endotoxins
		1	RS 357.0

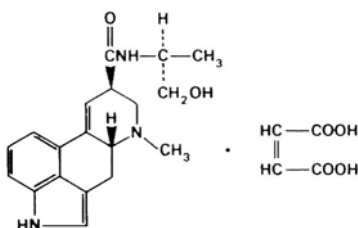
ERGOMETRINI HYDROGENOMALEAS

Ergometrine hydrogen maleate

C₂₃H₂₇N₃O₆ C₁₉H₂₃N₃O₂, C₄H₄O₄ :Molecular formula

441.5 :Relative molecular mass

:Graphic formula



:Chemical name

9,10-Didehydro-*N*-[(*S*)-2-hydroxy-1-methylethyl]-6-methyl-ergoline-8 β -carboxamide maleate (1:1) (salt); 9,10-didehydro-*N*-[(*S*)-2-hydroxy-1-methylethyl]-6-methylergoline-8 β -carboxamide (*Z*)-2-butanedioate (1:1) salt; CAS Reg. No. 129-51-1.

:Description

R

TS (/ 750~)

:Solubility

.R

.Oxytocic

:Category

:Storage

:Additional information

REQUIREMENTS

%98.0

:General requirement

C₁₉H₂₃ N₃O₂, C₄H₄O₄ %101.0

:Identity tests

5 15 :A

"Related alkaloid" :B

.C B

-4 2 1 20 2 :C

5 TS1

TS1 1 1 2 :D

/ 10

:Specific optical rotation

. [a]_D^{20 °C} = +50 to +56°

10 0.10

:Clarity and colour of solution

" Yw3 R
 .(53 1) "Colour of liquids
) 80 :Loss on drying
 . / 20 (5 0.6
 R / 10 :pH value
 .5.0-3.0
 " :Related alkaloids
 9 R1 .(84 1) "Thin-layer chromatography
 . R 1 R
 TS (/ 260~) 25
 4.0 :(A) 5 . 30
 0.12 :(C) 1 0.12 :(B) 1
 . 1 RS
 TS2 -4
 A .
 .B
 10 R1 20 0.20 :Assay
 VS (/ 0.05) R
 1 .(142 1) A "Non-aqueous titration "
 .C₁₉H₂₃N₃O₂, C₄H₄O₄ 22.07 VS (/ 0.05)

Additional requirements for Ergometrine hydrogen maleate for parenteral use

.(56 4) "Parenteral preparations "
 " :Bacterial endotoxins
 (30 5) "Test for bacterial endotoxins
 . 1 RS 700.0

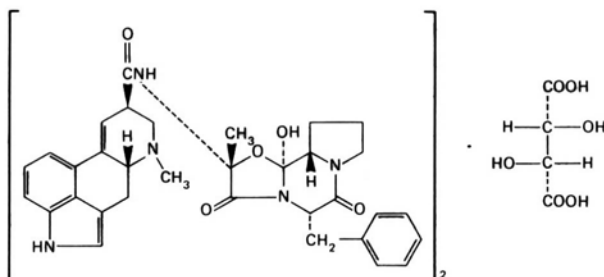
ERGOTAMINI TARTRAS

Ergotamine tartrate

$C_{70}H_{76}N_{10}O_{16}$ ($C_{33}H_{35}N_5O_5$)₂, $C_4H_6O_6$:Molecular formula

1313 :Relative molecular mass

:Graphic formula



:Chemical name

Ergotamine L-(+)-tartrate (2:1) (salt); 12'-hydroxy-2'-methyl-5' α -(phenylmethyl)ergotaman-3',6',18-trione[*R*-(*R**,*R**)]-2,3-dihydroxybutanedioate (2:1) (salt); CAS Reg. No. 379-79-3.

:Description

TS (/ 750~)

:Solubility

.R R

.Sympatholytic () :Category

:Storage

:Additional information

REQUIREMENTS

%98.0

:General requirement

($C_{33}H_{35}N_5O_5$)₂, $C_4H_6O_6$ %101.0

:Identity tests

"Related alkaloids" :A
 .C B
 1 .R 5 R 5 1 :B
 TS (/ 1760) 1
 TS (/ 25) 0.1 .

:Specific optical rotation of ergotamine base

25 separator 0.35
 10 . R 0.5 TS (/ 10)
 R
 50 R
 R
 50 10 ° 20
 ° 20
 ° 95 25.0
 . (5 0.6)
 . $[\alpha]_D^{20C} = -150 \text{ to } -160^\circ$

:Clarity and colour of solution

50 R 25 10 ° 20
 1) "Colour of liquids" " Yw2
 .(53

:Loss on drying

° 95 . / 50 (5 0.6)
 "

:Related alkaloids

9 R1 (84 1) "Thin-layer chromatography"

				R	1	R	
			TS (/ 260~)		25		
5.0	(A)				5		30
0.25	(C)	1		0.25	(B)	1	
			TS2	1	RS		
				-4			
				A			
							.B
		6	15		0.3	Assay	
	VS (/ 0.05)			.R1			100 R
(142	1) A		"Non-aqueous titration		"		
(C ₃₃ H ₃₅ N ₅ O ₅) ₂ , C ₄ H ₆ O ₆		32.83	VS (/ 0.05)				1

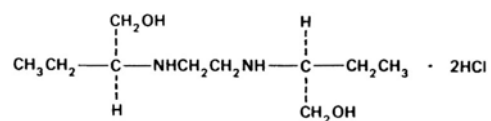
ETHAMBUTOLI HYDROCHLORIDUM

Ethambutol hydrochloride

$C_{10}H_{24}N_2O_2 \cdot 2HCl$:Molecular formula

277.2 :Relative molecular mass

:Graphic formula



:Chemical name

(+)-(S,S)-2,2'-(Ethylenediimino)di-1-butanol dihydrochloride;
[S-(R*,R*)]-2,2'-(1,2-ethanediyldiimino)bis[1-butanol] dihydrochloride; CAS
Reg. No. 1070-11-7.

:Description

750~) R 850 1 :Solubility

.R TS (/

(tuberculostatic) Antibacterial :Category

. :Storage

REQUIREMENTS

%98.0 :General requirement

C₁₀H₂₄ N₂O₂, 2HCl %100.5

:Identity tests

	.D	C	B	C	A	•
			"			:A
reference spectrum	. (43		1	)	"Spectrophotometry in the infrared region	
			RS			

	.C	B	/	0.1	:C
Genera;	"	B			:D
	. (121		1	)	"identification tests
			. °	200	

:Specific optical rotation

$$[a]_D^{20} = +5.0 \text{ to } +7.0^\circ / 0.10$$

	1.0	:Heavy metals	()	"
(127	1	)	3	"Limit test for heavy metals	
	. /	20	(128	1	) A

:Sulfated ash

	. /	2.0	:Sulfated ash	:Loss on drying	. /
5.0		°	105		

.4.5-3.0 / 0.10 :pH value
 " :2(R-Aminobutanol) (-R)2
 R1 (84 1) "Thin-layer chromatography
 1 R 7 R 11
 2 1 TS (/ 420~)
 0.50 :(B) 1 50 :(A) R
 1 R -2 0.50 :(C) 1
 5 ° 105
 5 ° 90 triketohydrindene\cadmium TS
 C
 .A
 10 R1 100 0.3 :Assay
 VS (/ 0.1) TS /
 .(142 1) A "Non-aqueous titration "
 .C₁₀H₂₄ N₂O₂, 2HCl 13.86 VS (/ 0.1) 1

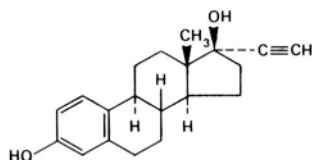
ETHINYLESTRADIOLUM

Ethinylestradiol

C₂₀H₂₄ O₂ :Molecular formula

296.4 :Relative molecular mass

:Graphic formula



:Chemical name

19-Nor-17 α -pregna-1,3,5(10)-trien-20-yne-3,17-diol; 17-ethynyl-estra-1,3,5,(10)-triene-3,17 β -diol; CAS Reg. No. 57-63-6.

TS (/ 750~)

:Description

:Solubility

.R R R

:Category

:Storage

:Additional information

° 183 poly morphic forms

° 143

REQUIREMENTS

%97.0

:General requirement

C₂₀H₂₄O₂ %102.0

:Identity tests

.B A •

" :A

.(43 1) "Spectrophotometry in the infrared region

RS

reference spectrum

0.2 / 30 R

"Thin-layer chromatography " :B

9 R 1 Kieselguhr R1 (84 1)

5 R 16

2

9 2 R

1.0 :(B) 1 1.0 :(A) R 1 R

15 1 RS

$^{\circ} 120$
 5-10 $^{\circ} 120$ 4-toluenesulfonic acid/ ethanol TS 15
 .(365)
 .B (A)
 R / 4.0 :Specific optical rotation
 $[a]_D^{20\text{ }^{\circ}\text{C}} = -27.0 \text{ to } -30.0^{\circ}$
 10 $^{\circ} 105$:Loss on drying
 Thin layer " :Estrone
 92 R1 (84 1) " chromatography
 5 . 0.5 R 8 R
 R 1 R 9
 RS 0.20 :(B) 1 20 :(A)
 . 1
 TS / 10 $^{\circ} 110$
 .(365) 10 $^{\circ} 110$
 .A B
 () 0.05 :Assay
 . 50.0 10.0 100
 $\text{C}_{20}\text{H}_{24}\text{O}_2$. 281 1
 . RS
 .0.04 \pm 72

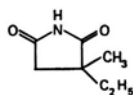
ETHOSUXIMIDUM

Ethosuximide

$\text{C}_7\text{H}_{11}\text{NO}_2$:Molecular formula

141.2 :Relative molecular mass

:Graphic formula



:Chemical name

2-Ethyl-2-methylsuccinimide; 3-ethyl-3-methyl-2,5-pyrroli-
dinedione; CAS Reg. No. 77-67-8.

:Description

.R R TS (/ 750~)

:Solubility

.Anticonvulsant

:Category

:Storage

:Additional information

REQUIREMENTS

%99.0

:General requirement

C₇H₁₁N O₂ %105.0

:Identity tests

.C B A •
" :A

.(43 1) "Spectrophotometry in the infrared region
reference spectrum RS

TS (/ 750~)

.(45 1) 3

TS (/ 1760~)

2 R

0.2

0.1

:B

80~) 5 5 ° 140
 TS (/
 ° 46 :C
 3 TS (/ 750~) 10 1 :Cyanides
 TS (/ 80~) 1 TS (/ 15)
 TS (/ 100~) .TS (/ 25)
 15
 / 5.0 :Sulfated ash
 " :Water
 Determination of water by 1 (145 1) A "Karl Fischer method
 / 5.0
 5 50 5.0 :Acidity
 TS / VS (/ 0.1)
 .() 0.7
 " :Related substances
 9 R2 (84 1) "Thin-layer chromatography
 10 R 1 R
 : (B) 1 50 : (A) TS (/ 750~)
 1 0.050
 A .(254)
 .B
 3 R 30 0.28 :Assay
 (/ 0.1) azo violet TS
 Non-aqueous " VS
 0.1) 1 .(142 1) B "titration
 .C₇H₁₁NO₂ 14.12 VS(/

FERROSI SULFAS

Ferrous sulfate

exsiccated Ferrous sulfate

Ferrous sulfate heptahydrate

) $\text{FeSO}_4 \cdot 7\text{H}_2\text{O}$ () $\text{FeSO}_4 \cdot n\text{H}_2\text{O}$:Molecular formula

.(heptahydrate

) 278.0 () 151.9 :Relative molecular mass

.(heptahydrate

:Chemical name

Iron(2+) sulfate (1:1); CAS Reg No. 77720-78-7 (anhydrous) ()

Iron (2+)sulfate (1:1) ; heptahydrate; CAS Reg. No. 7782-63-0 (heptahydrate)

:Description

heptahydrate

:Solubility

R

.TS (/ 750~)

.TS (/ 750~)

heptahydrate

.() Haemopoietic :Category

:Storage

:Labelling

.heptahydrate

:Additional information

.° 40

REQUIREMENTS

	%80.0			:General requirement	
%105.0		%98.0		FeSO ₄	%90.0
				.FeSO ₄ ·7H ₂ O	
				:Identity tests	
General	"		/ 20		:A
	.(121	1	)		"identification tests
General	"		A / 20		:B
	.(123	1	)		"identification tests
	10	1.0		:Heavy metals	()
. 5	TS (/ 330~)		2		TS (/ 250~)
3					20
		100	20		
	.TS (/ 250~)			1	
25	. 50				TS
	"				
2	(128	1	) A	"Limit test for heavy metals	
				. /	50
		10	1	:Alkaline salts	
()	TS (/ 100~)			TS (/ 1000~)	
				. /	1.0
		25	3.3	:Arsenic	
	(130	1	)"Limit test for arsenic		"
				. /	3
		10	1.0	:Insoluble matter	
	. /	5.0		°	105

			.4.0-3.0 / 0.05		:pH value
30			0.3		:Assay
0.1)			TS (/ 100~)		20
<i>o</i> -phenanthroline TS			2		Ceric ammonium sulfate VS (/
.FeSO ₄	15.19		VS (/ 0.1)		1
150	R		2.5		
1440~)			5.0 TS (/ 1760~)		10.0
			0.5		.TS (/
2			ceric ammonium sulfate VS (/ 0.1~)		
VS (/ 0.1~)			1		<i>o</i> -phenanthroline TS
					.FeSO ₄ , 7H ₂ O
					27.80

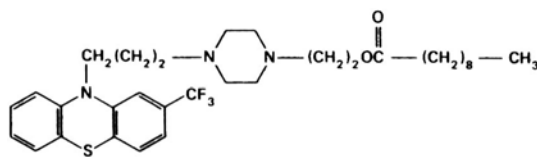
FLUPHENAZINI DECANOAS

Fluphenazine decanoate

$C_{32}H_{44}F_3N_3O_2S$:Molecular formula

591.8 :Relative molecular mass

:Graphic formula



:Chemical name

4-[3-[2-(Trifluoromethyl)phenothiazin-10-yl]propyl]-1-piperazineethanol decanoate (ester); 4-[3-[2-(trifluoromethyl)-10*H*-phenothiazin-10-yl]propyl]-1-piperazineethanol decanoate (ester); CAS Reg. No. 5002-47-1.

:Description

.R R R

:Miscibility

.Neuroleptic

:Category

:Storage

:Additional information

REQUIREMENTS

%98.5

:General requirement

$C_{32}H_{44}F_3N_3O_2S$ %101.5

:Identity tests

" :A

.(43 1) "Spectrophotometry in the infrared region

reference spectrum

RS

"Thin-layer chromatography

" :B

5 R2 (84 1)

5 R 95 *n*-tetradecane R

1 10 R 90

1 20 :(A) TS (/ 750~)

1 RS 20 :(B)

.(254)

.B A

5 TS (/ 1760~) 2 5 :C

. / 2.0 **:Sulfated ash**

) ° 60 :Loss on drying
 . / 10 (5 0.6
 " :Related substances
 80 R2 (84 1) "Thin-layer chromatography
 TS (/ 260~) 5 R 30 R
 25 :(A) R 20
 . 1 RS 0.25 :(B) 1
 TS (/ 635~) .(254)
 A .
 .B
 R1 30 0.6 :Assay
 Non - " VS (/ 0.1)
 (/ 0.1) 1 .(142 1) A "aqueous titration
 .C₃₂H₄₄ F₃N₃O₂S 25.59 VS

Additional requirement for Fluphenazine for parenteral use

(56 4) "Parenteral preparations "

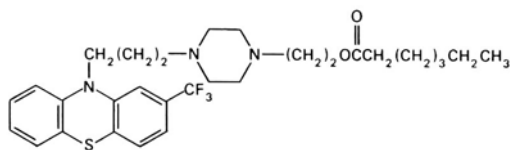
FLUPHENAZINI ENANTAS

Fluphenazine enantate

C₂₉H₃₈ F₃N₃O₂S :Molecular formula

549.7 :Relative molecular mass

:Graphic formula



:Chemical name

4-[3-[2-(Trifluoromethyl)phenothiazin-10-yl]propyl]-1-piperazineethanol decanoate (ester); 4-[3-[2-(trifluoromethyl)-10H-phenothiazin-10-yl]propyl]-1-piperazineethanol decanoate (ester); CAS Reg. No. 5002-47-1.

:Description

.R R R

:Miscibility

.Neuroleptic

:Category

:Storage

REQUIREMENTS

%98.5

:General requirement

C₂₉H₃₈ F₃N₃O₂S % 101.5

:Identity tests

"

:A

.(43 1) "Spectrophotometry in the infrared region

reference spectrum

RS

"Thin-layer chromatography

"

:B

5

R2

(84 1)

5

R

95 n-tetradecane R

1

10 R

90

1

20

:(A) TS (/ 750~)

1

RS

20

:(B)

.(254)

.B

A

5 TS (/ 1760~) 2 5 :C

. / 2.0 :Sulfated ash

) ° 60 :Loss on drying

. / 10 (5 0.6

" :Related substances

80 R2 (84 1) "Thin-layer chromatography

TS (/ 260~) 5 R 30 R

25 :(A) R 20

. 1 RS 0.25 :(B) 1

TS (/ 635~) .(254)

A

.B

R1 30 0.55 :Assay

Non - " VS (/ 0.1)

(/ 0.1) 1 .(142 1) A "aqueous titration

.C₂₉H₃₈ F₃N₃O₂S 27.49 VS

Additional requirement for Fluphenazine enantate for parenteral use

(56 4) "Parenteral preparations"

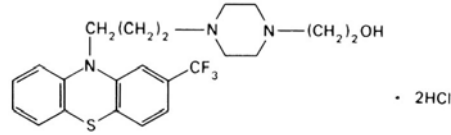
FLUPHENAZINI HYDROCHLORIDUM

Fluphenazin hydrochlorid

C₂₂H₂₆ F₃N₃OS,2HCl :Molecular formula

510.4 :Relative molecular mass

:Graphic formula



:Chemical name

4-[3-[2-(Trifluoromethyl)phenothiazin-10-yl]propyl]-1-piperazineethanol dihydrochloride; 4-[3-[2-(trifluoromethyl)-10H-phenothiazin-10-yl]propyl]-1-piperazineethanol dihydrochloride; CAS Reg. No. 146-56-5.

:Description

TS (/ 750~)

10

:Solubility

.R

.Neuroleptic

:Category

:Storage

:Additional information

REQUIREMENTS

%98.5

:General requirement

C₂₂H₂₆F₃N₃OS,2HCl %101.5

:Identity tests

"

:A

(43 1) "Spectrophotometry in the infrared region

reference spectrum

RS

"Thin-layer chromatography

"

:B

5 R

15

Kieselguhr R1

(84 1)

5

R

180 R

-2

R1 100 R 2
 R 2 .R -2
 RS 2.0 :(B) 1 2.0 :(A)
 2 (365)
 A TS /
 .B
 TS (/ 1760~) 5 5 :C
 5 TS 0.5 :D
 3 ()
 5
 General " B / 0.05 :E
 .(121 1) "identification tests
 . / 2.0 **:Sulfated ash**
 ° 105 **:Loss on drying**
 " . / 10
:Related substances
 80 R2 (84 1) "Thin-layer chromatography
 TS (/ 260~) 5 R 30 R
 TS / 10
 1 0.10 :(B) 1 10 :(A)
 A .(254)
 .B
 10 R1 30 0.5 **:Assay**

VS (/ 0.1) TS /
 1 .(142 1) A "Non-aqueous titration "
 .C₂₂H₂₆ F₃N₃OS,2HCl 25.52 VS (/ 0.1)

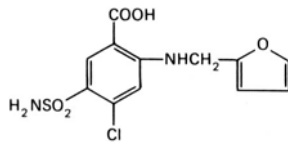
FUROSEMIDUM

Furosemide

C₁₂H₁₁ClN₂O₅S :Molecular formula

330.8 :Relative molecular mass

:Graphic formula



:Chemical name

4-Chloro-*N*-furfuryl-5-sulfamoylanthranilic acid; 5-(amino-sulfonyl)-4-chloro-2-[(2-furanylmethyl)amino]benzoic acid; CAS Reg. No. 54-31-9.

:Description

TS (/ 750~)

75

:Solubility

.R

R

.Diuretic

:Category

:Storage

REQUIREMENTS

%101.5

%98.0

:General requirement

C₁₂H₁₁ClN₂O₅S

:Identity tests

.C B

A

•

" Spectrophotometry in the infrared region :A
 (43 1) "Spectrophotometry in the infrared region
 reference spectrum RS
 10 1 .R 10 5 :B
 . 15 TS (/ 70~)
 .TS (/ 1) 5 VS (/ 1) 15
 1 .TS (/ 25) 2 3
 N-(1-naphthyl)ethylene-diamine hydrochloride TS (/ 5) (-1)-N
 2 TS (/ 750~) 2.5 25 :C
 4-dimethyl amino benz aldehyde TS1 -4
 1.0 :Heavy metals ()
 (127 1) 3 "Limit test for heavy metals "
 . / 20 (128 1) A
 . / 1.0 :Sulfated ash
 ° 105 :Loss on drying
 . / 5.0
 25 0.1 :4-Chloro-5-Sulfamoylanthranilic acid -5- -4
 1 12 R 3 1 .R
 TS (/ 10) 0.5 .VS (/ 1)
 TS (/ 5) (-1)-N 1 . 5
 . 25 N-(1-naphthyl) ethylene diamine hydrochloride
 blank () 530 1
 R 3 R 1
 -5- -4 %0.3) 0.12
 2) (4-chloro-5 sulfamoylanthranilic acid

1 R1 (84 1) "Thin-layer chromatography
 R -2 3 R 3 xylene R 1 R
 5 TS (/ 260~) 2
 0.30 :(B) 1 20 :(A) R
 A .(365)
 .B
 3 R 40 0.3 :Assay
 VS (/ 0.1) TS /
 1 .
 .C₁₂H₁₁ClN₂O₅S 33.08 VS (/ 0.1)

Additional requirement for Furosemide for parenteral use

.(56 4) "parenteral preparations"

:Bacterial endotoxins

(30 5) "Test for bacterial endotoxins"

. 1 RS 3.6

GLUCOSUM

Glucose

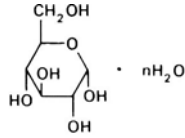
Glucose, anhydrous

Glucose monohydrate

.() C₆H₁₂ O₆, H₂O () C₆H₁₂ O₆ :Molecular formula

.() 198.2 () 180.2 :Relative molecular mass

:Graphic formula



n = 0 (anhydrous)
n = 1 (monohydrate)

:Chemical name

α -D-Glucopyranose; CAS Reg. No. 492-62-6 (anhydrous).
 α -D-Glucopyranose monohydrate; CAS Reg. No. 14431-43-7 (monohydrate).

.Dextrose

:Other name

:Description

TS (/ 750~)

1

:Solubility

.TS (/ 750~)

.fluid replenisher

Nutrient

:Category

:Storage

:Labelling

For oral

"

" use only

:Additional information

REQUIREMENTS

%101.5

%99.0

:General requirement

C₆H₁₂O

:Identity tests

:A

5 / 0.05

:B

potassio-cupric tatrte TS

0.2

50

10.0

:Specific optical rotation

30	100	TS (/ 100~)
		$[\alpha]_D^{20^\circ\text{C}} = +52.5 \text{ to } +53.0^\circ$
	1.0	:Heavy metals ()
(127	1) 1	"Limit test for heavy metals "
	5	(128 1) A
	35 10	:Arsenic
/	1 (130 1)	"Limit test for arsenic "
20	TS (/ 130~)	2 1.25 :Chlorides
"Limit test for chlorides		"
	/ 0.2	(121 1)
"		20 2.5 :Sulfates
/	0.2 (125 1)	"Limit test for sulfates
30	1	:Less-soluble sugars and dextrins
		TS (/ 710~)
0.1	1	25 2.5 :Soluble starch
		VS (/ 0.1~)
VS (/ 0.1)	0.1	25 2.5 :Sulfites
		TS
	10 5.0	:Clarity and colour of solution
Colour of	"	Gn 3
		(53 1) "liquids
	/ 1.0	:Sulfated ash
Determination of water by		" :Water
	1	(145 1) A "the Karl Fischer method
	0.15	/ 10
	/ 95	/ 70

TS / R 50 5.0 :Acidity
 .() 0.5
 25.0 50 0.10 :Assay
 20 .TS (/ 50) 10 VS (/ 0.05)
 0.1) .TS (/ 100~) 15
 . TS VS (/
 .C₆H₁₂O₆ 9.008 VS (/ 0.05) 1

Additional requirements for Glucose for parenteral use

(56 4)"Parenteral preparation"
 " :Bacterial endotoxins
 (30 5) ."Test for bacterial endotoxins
 . 1 RS 0.5

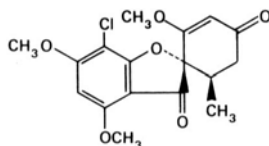
GRISEOFULVINUM

Griseofulvin

C₁₇H₁₇ClO₆ :Molecular formula

352.8 :Relative molecular mass

:Graphic formula



:Chemical name

7-Chloro-2',4,6-trimethoxy-6'β-methylspiro[benzofuran-2(3H),1'-[2]cyclohexene]-3,4'-dione; (1'S-trans)-7-chloro-2',4,6-trimethoxy-6'-methylspiro[benzofuran-2(3H),1'-[2]cyclohexene]-3,4'-dione; CAS Reg. No. 126-07-8.

TS (/ 750~)

:Description

:Solubility

R

R

.Antifungal

:Category

:Storage

5

:Additional information

30

REQUIREMENTS

%97.0

:General requirement

C17H17ClO6 %102.0

:Identity tests

.D C B D A •

"

:(43 1) "Spectrophotometry in the infrared region

reference spectrum RS

"Thin-layer chromatography"

R 1 Kieselguhr R1 (84 1)

10 Xylene R 1

0.50 :(B) 1 0.50 :(A) R

1 RS

A .(254)

.B

5 TS (/ 1760~) 1 5 :C

- R

.° 220 :D

/ 10

:Specific optical rotation

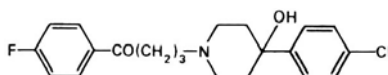
HALOPERIDOLUM

Haloperidol

$C_{21}H_{23}ClFNO_2$:Molecular formula

375.9 :Relative molecular mass

:Graphic formula



:Chemical name

4-[4-(*p*-Chlorophenyl)-4-hydroxypiperidino]-4'-fluorobutyrophenone; 4-[4-(4-chlorophenyl)-4-hydroxy-1-piperidinyl]-1-(4-fluorophenyl)-1-butanone; CAS Reg. No. 52-86-8.

:Description

20 TS (/ 750~)

50

:Solubility

.R

200 R

.Neuroleptic

:Category

:Storage

REQUIREMENTS

%101.0

%98.0

:General requirement

$C_{21}H_{23}ClFNO_2$

:Identity tests

.C B

C A

"

:A

.(43 1) "Spectrophotometry in the infrared region

reference spectrum

RS

1

/

15

:B

350 230 R 99 VS (/ 1)
0.49 1 245
. (1 2) 0.53
1) "Oxygen flask method " :C
(/ 80~) 3 20 (132
10 . 2 TS
: Sodium (/ 1) 0.1 0.1 :(a)
TS 0.1 alizarinsulfonate TS
A 2 TS (/ 100~) 5 :(b)
"General identification tests " .(121 1)
.° 152 - 147 :Melting range
. / 1.0 :Sulfated ash
) ° 60 :Loss on drying
. / 5.0 (5 0.6
" :Related substances
) RS (84 1) "Thin-layer chromatography
10 R 10 R 80 (:
:(A) R 3 10 . R
1 0.050 :(B) 1 10
. 1 0.10 :(C) .
TS2
.B A
.C
R1 30 0.35 :Assay

VS (/ 0.1)
 1 .(142 1) A "Non-aqueous titration"
 .C₂₁H₂₃ClFNO₂ 37.59 VS (/ 0.1)

Additional requirements for Haloperidol for parenteral use

(56 4) "Parenteral preparations"

:Bacterial endotoxins

(30 5) "Test for bacterial endotoxins"

. 1 RS 71.4

HALOTHANUM

Halothane

C₂HBrClF₃ :Molecular formula

197.4 :Relative molecular mass

:Graphic formula



:Chemical name

2-Bromo-2-chloro-1,1,1-trifluoroethane; CAS Reg. No. 151-67-7.

:Description

R TS (/ 750~) 400 :Miscibility
 .R R

.General anaesthetic :Category

:Storage

.° 25

:Additional information

/ 0.12 / 0.08

:Identity tests

1 0.1 *tert.*-butanol R 2
60~) 2 TS (/ 260~) 0.5 TS
.2 .1 TS (/
.R 0.3 15 ° 50
0.5 2 1 1 :A
TS sodium alizarinsulfonate TS (/ 1)
.1 2
1.02 1 2 1 1 :B
100 VS (/ 0.1) 30 R
TS / 1 :(a) .(5.2 =)
tosylchloramide sodium TS (/ 15) 0.1 :(b)
.1 2
TS (/ 570~) 0.5 2 1 2 :C
.TS (/ 50) 0.2 R 0.5
0.5 . 2 ° 50
2 TS (/ 40) 0.1 TS (/ 1000~)
1

$\rho_{20} = 1.865-1.875$ g/ml **:Mass density**

3 R 20 10 **:Free halides**
TS (/ 1000~) 1 5 5 .
) . TS (/ 40~) 0.2
.(

10 **:Free halogens**

TS / 1

20 20 :Acidity or alkalinity
 TS / . 3
 0.6 VS (/ 0.01) 0.1
 .() VS (/ 0.01)
 0.5 25 3 :Thymol
 .TS3 0.5 TS2 0.5
 5
 30 .TS / 5.0 R
 .
 .(/ 0.08-0.08)
 Gas " :Related substances
 TS (1) 3 (101 1) "chromatography
 0.05 (3) (2)
 . 1 R
 1.8 5.0 2.75
 70 macrogol 400 R 30
 30 pink firebrick R
 pink firebrick R 70 dinonyl phthalate R
 flame ionization R ° 50
 .detector
 3
 allowance

.2

HYDRARGYRI OXYCYANIDUM

Mercuric oxycyanide

2 Hg(CN)₂,HgO

1

:Composition

.CAS Reg. No. 73360-53-9 Hg (CN)₂

:Description

.TS (/ 750~)

20

:Solubility

.(/) Antiseptic

:Category

:Storage

:Additional information

REQUIREMENTS

% 14.5

:General requirement

.Hg(CN)₂ % 85.5

% 82.5

HgO % 17.2

:Identity tests

/ 0.05

:A

TS (/ 80)

/ 0.05

:B

TS (/ 100~)

R

0.05

/ 0.05

1

:C

TS (/ 80~)

TS (/ 70~)

10

20

1.75

:Chlorides

10

TS

25 TS (/ 80~)

TS (/ 130~)

"

100

6	40	(124	1	) "Limit test for chlorides
	10			.TS (/ 130~)
10		CITS	12.25	TS (/ 80~)
TS (/ 130~)				
"			100	
6	40			"Limit test for chlorides
	/	0.35		TS (/ 130~)
	10	0.050		:Clarity of solution
/	2.5	()		:Sulfated ash
10	°	105		:Loss on drying
				/
R	/	0.05		:pH value
				.8.0-7.46
				:Assay
50		0.5		:For mercuric oxide
	VS (/	0.1)	R	1
1				TS /
(		) .HgO	10.83	VS (/ 0.1)
				:For mercuric cyanide
1	.VS (/	0.1)	R	3
		.Hg(CN) ₂	12.63	VS (/ 0.1)

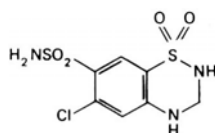
HYDROCHLOROTHIAZIDUM

Hydrochlorothiazide

$C_7H_8ClN_3O_4S_2$:Molecular formula

297.7 :Relative molecular mass

:Graphic formula



:Chemical name

6-Chloro-3,4-dihydro-2H-1,2,4-benzothiadiazine-7-sulfonamide 1,1-dioxide; CAS Reg. No. 58-93-5.

:Description

R R

:Solubility

.R 20 TS (/ 750~) 200

.Diuretic :Category

:Storage

REQUIREMENTS

%98.0

:General requirement

C₇H₈ClN₃O₄S₂ %102.0

:Identity tests

" :A

.(43 1) "Spectrophotometry in the infrared region

reference spectrum

RS

disodium chromotropate R 10 10 :B

TS (/ 1760~) 5 1

1.0 :Heavy metals ()

(127 1) 3 "Limit test for heavy metals "

. / 10 (128 1) A ()

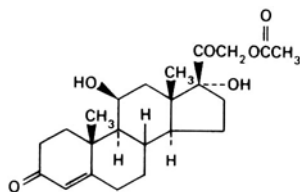
HYDROCORTISONI ACETAS

Hydrocortisone acetate

$C_{23}H_{32}O_6$:Molecular formula

404.5 :Relative molecular mass

:Graphic formula



:Chemical name

21-(Acetyloxy)-11 β ,17-dihydroxypregn-4-ene-3,20-dione;
11 β ,17,21-trihydroxypregn-4-ene-3,20-dione 21-acetate; CAS Reg. No. 50-03-3.

.Cortisol acetate

:Other name

:Description

R

TS (/ 750~)

:Solubility

.R

.Adrenocortical steroid

:Category

: Storage

° 220

:Additional information

%97.0

:General requirement

$C_{23}H_{32}O_6$ %102.0

:Identity tests

.B

A

•

"

:A

.(43 1) "Spectrophotometry in the infrared region

reference spectrum

RS

"Thin-layer chromatography

"

:B

R

10

Kieselguhr R1

(84

1

)

5

R

90

16

2

2

.R

25 R

75

:(A)

R

1 R

9

1

RS

2.5

:(B)

1

2.5

15

15 ° 120

10 ° 120

TS /

.(365)

.B

A

R

/ 10

:Specific optical rotation

. [a]_D^{20°C} = +157 to +168°

10

° 105

:Loss on drying

. /

"

:Related substances

95

R2

"Thin-layer chromatography

1

0.2 R

5 R

15 :(A)

R

1 R

9

. 1

0.30

:(B)

1

10 ° 105

.(254)

.B

(A)

TS (/ 750~)			20	:Assay
1	.	100	5.0	100
	C ₂₃ H ₃₂ O ₆	.	242	
		.		RS
1	2		) 0.40 ± 0.02	

.)

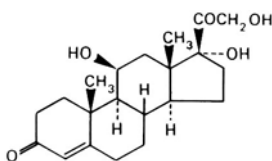
HYDROCORTISONUM

Hydrocortisone

C₂₁H₃₀O₅ :Molecular formula

362.5 :Relative molecular mass

:Graphic formula



:Chemical name

11β,17,21-Trihydroxypregn-4-ene-3,20-dione; CAS Reg. No. 50-23-7.

.Cortisol

:Other name

:Description

TS (/ 750~)

R

:Solubility

.R

R

.Adrenocortical steroid

:Category

:Storage

° 214

:Additional information

REQUIREMENTS

%97.0

:General requirement

$C_{21}H_{30}O_5$ %102.0

:Identity tests

.B A •

" :A

.(43 1) "Spectrophotometry in the infrared region

reference spectrum

RS

"Thin-layer chromatography

" :B

90 R 10

Kieselguhr R1 (84 1)

16

5 R

2

9

2

R

2.5 : (B) . 1

2.5 : (A) R 1 R

. 15

. 1 RS

° 120

10 ° 120

TS /

15

.(365)

.B

A

/ 10

:Specific optical rotation

. $[a]_D^{20°C} = +150$ to $+165°$ R

10 ° 105

:Loss on drying

. /

"

:Related substances

77 R2

(84 1) "Thin-layer chromatography

1.2 R 8 R 15 R
 1 R 9 1 15 (A) R
 0.30 (B) 1 10 ° 105
 (A) (254)
 .B
 TS (/ 750~) 20 :Assay
 1 100 5.0 100
 C₂₁H₃₀O₅ 242
 RS
 1 2) 0.02 ± 0.44
 .(

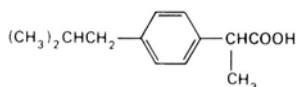
IBUPROFENUM

Ibuprofen

C₁₃H₁₈O₂ :Molecular formula

206.3 :Relative molecular mass

:Graphic formula



:Chemical name

p-Isobutylhydratropic acid; α -methyl-4-(2-methylpropyl)benzeneacetic acid; 2-(*p*-isobutylphenyl)propionic acid; CAS Reg. No. 15687-27-1.

:Description

1 TS (/ 750~)

1.5

:Solubility

.R 1.5 R 2 R
 .anti-inflammatory Analgesic :Category
 . :Storage

REQUIREMENTS

%100.5 %98.5 :General requirement
 C₁₃H₁₈O₂

:Identity tests

.C B A •
 " :A
 .(43 1) "Spectrophotometry in the infrared region
 . reference spectrum RS
 VS (/ 0.1) / 0.25 :B
 / 0.25 350 220
) VS (/ 0.1) RS
 .(259 273 264
 1 .%3
 2) 0.39 0.46 273 264
 .(1
 .° 76 :C

1.0 :Heavy metals ()
 (127 1) 3 "Limit test for heavy metals "

. / 10 (128 1) A
 . / 1.0 :Sulfated ash

) :Loss on drying
 phosphorus pentoxide R (5 0.6
 . / 5.0

:Related substances

1) "Gas chromatography" :A
 TS 0.10 : (101
 diazomethane
 .A2 A1 .R 2
 () 3.0 1.8 A1
 silanized kieselguhr R3 9 20 M R 1
 .flame ionization detector R .° 135
 2.5
 0.010 .1.0
 .0003
 () 3.0 1.8 A2
 R 0.2 methyl silicone gum R 0.5
 silanized kieselguhr R4 9.3 cyanoethylmethyl silicone gum
 .flame ionization detector R .° 170
 6.0 1.5
 .0.010 .1.0
 .0.015 A2 A1
 "Thin-layer chromatography" :B
 R -1 15 R1 (84 1)
 . R 1 R 5
 1 100 :(A) R 5
 . 1 1 :(B)
 R / 10
 20 ° 120 TS (/ 100~)
 A .(365)
 .B

TS (/ 750~) 100 0.4 :Assay
 (/ 0.1) TS /
 . TS / VS
 20.63 VS (/ 0.1) 1 .
 .C₁₃H₁₈O₂

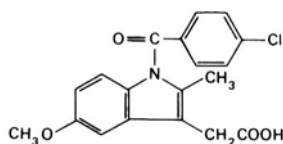
INDOMETACINUM

Indometacin

C₁₉H₁₆ClNO₄ :Molecular formula

357.8 :Relative molecular mass

:Graphic formula



:Chemical name

1-(*p*-Chlorobenzoyl)-5-methoxy-2-methylindole-3-acetic acid;
 1-(4-chlorobenzoyl)-5-methoxy-2-methyl-1*H*-indole-3-acetic acid; CAS Reg.
 No. 53-86-1.

:Description

R TS (/ 750~)

:Solubility

.R

.anti-inflammatory

Analgesic

:Category

:Storage

.polymorphism

:Additional information

.RS

REQUIREMENTS

%101.5	%98.0				:General requirement
					C ₁₉ H ₁₆ ClNO ₄
					:Identity tests
					•
					:A
					"Spectrophotometry in the infrared region
					reference spectrum
					:B
					5
					0.5
					:C
					:Heavy metals ()
					"Limit test for heavy metals
					A
					:Sulfated ash
					:Loss on drying
					0.6
					:Related substances
					"Thin-layer chromatography
					3 R
					:A
					10
					:B
					20
					1

A (254)
 .B
 75 0.33 :Assay
 () . 15 R
 TS / VS (/ 0.1)
 .potentiometrically
 VS (/ 0.1) 1 .
 .C₁₉H₁₆ClNO₄ 35.78

IODUM

Iodine

I2 :Molecular formula

253.8 :Relative molecular mass

.Iodine; CAS Reg. No. 7553-56-2 :Chemical name

:Description

R TS (/ 750~)

:Solubility

.R

R

R

.External antiseptic

:Category

:Storage

:Additional information

REQUIREMENTS

.I2 %100.5

%99.5

:General requirement

0.05 . TS (/ 750) 10 0.05 :A
. R 10
. TS :B

10 1.5 :Chlorides and bromides
.R 0.5 . 15
5 . 20
3 TS (/ 260~) 1.5 ()
1.5 10 TS (/ 40)
. 1 TS (/ 1000~)
0.25 10.75
0.3 TS (/ 130~) 0.2 VS (/ 0.01)
. / 0.25 TS (/ 40~)

5 :Cyanides
1 TS (/ 15) () 0.2
TS (/ 70~) .TS (/ 80~)

1 :Non-volatile residue
. / 1.0 ° 105 1 .
1 0.5 :Assay
1 50 . 5 R
1 . TS VS (/ 0.1) TS (/ 70~)
.I 12.69 VS (/ 0.1)

Additional requirement for Iodine for parenteral use

.(56 4) "parenteral preparation"

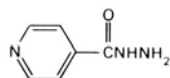
ISONIAZIDUM

Isoniazid

$C_6H_7N_3O$:Molecular formula

137.1 :Relative molecular mass

:Graphic formula



:Chemical name

4-Pyridinecarboxylic acid hydrazide; CAS Reg. No. 54-85-3.

.Isonicotinic acid hydrazide

:Other name

:Description

TS (/ 750~)

40

8

:Solubility

.R

R

.Tuberculostatic

:Category

:Storage

REQUIREMENTS

%101.0

%98.0

:General requirement

$C_6H_7N_3O$

:Identity tests

.C B

A

•

"

:A

.(43 1) "Spectrophotometry in the infrared region

reference spectrum

RS

R

1

0.05

:B

TS (/ 10) 10 2 0.1 :C
 TS (/ 600~) 5 .
 .° 227 ° 105
 .° 174-170 :Melting range
 1.0 :Heavy metals ()
 (127 1) 1 "Limit test for heavy metals "
 . / 20 (128 1) A
 10 0.50 :Clarity and colour of solution
 . / 1.0 :Sulfated ash
 10 ° 105 :Loss on drying
 . /
 R / 0.05 :pH value
 .8.0-6.0
 " :Free hydrazine
 98 R1 (84 1) "Thin-layer chromatography
 10 2 R
 1 0.10 :(A) 1 R 1
 . 1 20 :(B)
 TS3 -4
 A B
 . 100 0.25 :Assay
 TS (/ 250~) 20 100 25.0
 .TS / 3 R 0.2
 . VS (/ 0.0167) 1 . VS (/ 0.0167)

.C₆H₇ N₃O 3.429

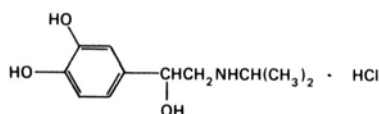
ISOPRENALINI HYDROCHLORIDUM

hydrochloride Isoprenaline

C₁₁H₁₇ NO₃, HCl :Molecular formula

247.7 :Relative molecular mass

:Graphic formula



:Chemical name

3,4-Dihydroxy- α -[(isopropylamino)methyl]benzyl alcohol hydrochloride; 4-[1-hydroxy-2-[(1-methylethyl)amino]ethyl]-1,2-benzenediol hydrochloride; α -[(isopropylamino)methyl]protocatechuy alcohol hydrochloride; CAS Reg. No. 51-30-9.

:Description

TS (/ 750~)

:Solubility

.R R

.Bronchodilator

:Category

:Storage

() :Additional information

REQUIREMENTS

%97.5

:General requirement

C₁₁H₁₇ NO₃, HCl %101.0

:Identity tests

350	240		/	0.050			:A
.0.50		1			280		
	10		/	1.0		1	:B
TS	6.4			10		TS	3.4
	VS (/	0.1)		0.5	.		
		.VS (/	0.1)			2	5
(levarterenol		)	6.4			-	3.4
General		"		B	/	0.05	:C
		(124	1	)		"	identification tests
		.		°	169		:D
	10	0.05					
							:Clarity and colour of solution
						R	
			/	2.0			:Sulfated ash
0.6	)						:Loss on drying
.	/	10		4	R	(	5
				.6.0 - 4.5	/	10	:pH value
	/	1.0			1		:Isoprenalone
2		)	0.2		310	VS (/	0.005)
						(	1
	R1			30		0.5	:Assay
	TS		/			10	
"Non-aqueous titration				"		VS (/	0.1)
24.77	VS (/	0.1)			1	(142	1
						)	A
						.	C ₁₁ H ₁₇ ,NO ₃ ,HCl

Additional requirements for Isoprenaline hydrochloride for parenteral use

(56 4) "Parenteral preparations "

"
 (30 5) "Test for bacterial endotoxins
 . 1 RS 1250.0

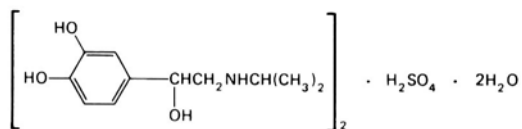
ISOPRENALINI SULFAS

Isoprenaline sulfate

.(C₁₁H₁₇NO₃)₂.H₂SO₄.2H₂O :Molecular formula

556.6 :Relative molecular mass

:Graphic formula



:Chemical name

3,4-Dihydroxy- α -[(isopropylamino)methyl]benzyl alcohol sulfate (2:1) (salt) dihydrate; 4-[1-hydroxy-2-[(1-methylethyl)amino]ethyl]-1,2-benzenediol sulfate (2:1) (salt) dihydrate; α -[(isopropylamino)methyl]protocatechuy alcohol sulfate (2:1) (salt) dihydrate; CAS Reg. No. 6700-39-6.

TS (/ 750~)

.R R

.Bronchodilator :Category

:Storage

() :Additional information

REQUIREMENTS

%98.0
 .
 (C₁₁H₁₇NO₃)₂.H₂SO₄ %101.0
:General requirement
:Identity tests
 350 240 / 0.050 :A
 .0.50 1 280
 10 / 1.0 1 :B
 6.4, TS 10 3.4, TS
 VS (/ 0.1) 0.5 .
 .VS (/ 0.1) 2 5
 .(levarterenol) 6.4 - 3.4
 General " A / 0.05 :C
 .(123 1) "identification tests
 5 . 2 TS (/ 750~) 10 0.1 :D
) ° 162 R
 .(

10 0.40 **:Clarity and colour of solution**
 R
 . / 2.0 **:Sulfated ash**
 " **:Water**
 Determination of water by 0.15 (145 1) A "the Karl Fischer method
 . / 75 / 50
 5.5 - 4.0 / 10 **:pH value**
 / 1.0 1 **:Isoprenalone**
 2) 0.2 310 VS (/ 0.005)
 .(1
 40 R1 40 0.45 **:Assay**
 VS (/ 0.1) acetonitrile R

1 .(142 1) A "Non-aqueous titration "

.(C₁₁H₁₇NO₃)₂.H₂SO₄ 52.06 VS (/ 0.1)

Additional requirements for Isoprenaline sulfate for parenteral use

.(56 4 "Parenteral preparations "

:Bacterial endotoxins

(30 5) "Test for bacterial endotoxins

. 1 RS 1250.0

KALII CHLORIDUM

Potassium chloride

Potassium chloride (non-injectable)

Potassium chloride for parenteral use

KCl **:Molecular formula**

74.55 **:Relative molecular mass**

.Potassium chloride; CAS Reg. No. 7447-40-7 **:Chemical name**

:Description

.TS (/ 750~)

3 **:Solubility**

.Ionic equilibration agent

:Category

:Storage

:Labelling

REQUIREMENTS

%99.0

:General requirement

KCl %100.5

:Identity tests

TS (/ 80~) 2 / 0.05 :A

"General identification tests"

(123 1)

General " A / 0.05 :B

(123 1) "identification tests

1.0 **:Heavy metals** ()

(127 1) 1 "Limit test for heavy metals"

/ 10 (128 1) A

Limit test " 1.0 **:Iron**

/ 40 (129 1) "for iron

2 / 10 20 **:Calcium and magnesium**

2 TS (/ 25~) 2 TS (/ 100~)

. 5 TS (/ 40~)

1 R 10 0.5 **:Barium**

. 1 TS (/ 100~)

35 3.3 **:Arsenic**

3 (130 1) "Limit test for arsenic"

. /

0.25 10 0.08 **:Bromides**

tosylchloramide sodium TS (/ 15) 2 VS (/ 0.5)

.R 5 2

. 9 TS (/ 0.119) 1.0

3 . 10

TS

(53 1) "Colour of liquids "

25 5 **:Iodides**

TS (/ 10) 2 TS (/ 0.5) 2 TS

. 5 . 25

" 20 1.7 **:Sulfates**

. / 0.3 (125 1) "Limit test for sulfates

10 1.0 **:Clarity and colour of solution**

10 ° 130 **:Loss on drying**

50 5.0 **:Acidity or alkalinity**

0.2 TS / 0.1 R

VS (/ 0.02) 0.2 VS (/ 0.02)

. ()

. 100 1.0 **:Assay**

25.0 TS (/ 130~) 5 50 10.0

R 2 VS (/ 0.1)

ferric ammonium (/ 45) 2.5 VS (/ 0.1)

.KCl 7.455 VS (/ 0.1) 1 . sulfate TS

Additional requirement for Potassium Chloride for parenteral use

(56 4) "Parenteral preparation "

589 (47 1) **:Sodium**

1000 R

. / 1.0 (1 Na 0.2) NaCl 508.4

" **:Bacterial endotoxins**

(30 5) "Test for bacterial endotoxins
 . 1 RS 8.8

Additional requirement for Potassium chloride for steril use

Test for sterility of non- "
 .(32 5) "injectable preparations

KALII IODIDUM

Potassium iodide

KI :Molecular formula

166.0 :Relative molecular mass

.Potassium iodide; CAS Reg. No. 7681-11-0 :Chemical name

			:Description
2	.TS (/ 750~)	17	:Solubility
		0.7	:Category
	.expectorant	.R	75 R
		Antifungal	:Storage

REQUIREMENTS

%99.0 :General requirement
 . KI %101.0

:Identity tests
 TS (/ 80~) 2 / 0.05 :A
 "General identification tests "
 .(123 1)

General		"	B	/	0.05	:B
		(122	1	)		"identification tests
		1.0			:Heavy metals	()
(127	1	) 1	"Limit test for heavy metals			"
		/	10	(128	1	) A
1	R			10	0.5	:Barium
			1	TS (/	100~)	
	2	R		10	0.5	:Iodides
		TS	1	TS (/	100~)	
5	1.0		:nitrites and ammonia	Nitrates		
	TS (/	80~)	5	40		
					R	0.2
					R	
						15
"				20	2.5	:Sulfates
/	0.2		(125	1	) "Limit test for sulfates	
0.1	R			10	1.0	:Thiosulfates
		VS (/	0.01)	0.05		TS
	10	1.0		:Clarity and colour of solution		
10		° 105		:Loss on drying		
						/
0.1	R			10	1.0	:Alkalinity
		TS /		1 VS (/	0.05)	

50 10 10 0.3 :Assay
 VS (/ 0.1) .TS / 1 TS
 .KI 16.60 VS (/ 0.1) 1 .

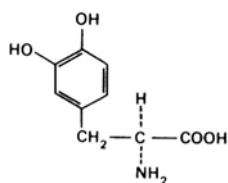
LEVODOPUM

Levodopa

$C_9H_{11}NO_4$:Molecular formula

197.2 :Relative molecular mass

:Graphic formula



:Chemical name

(-)-3-(3,4-Dihydroxyphenyl)-L-alanine; 3-hydroxy-L-tyrosine;
 CAS Reg. No. 59-92-7.

:Description

TS (/ 750~)

300

:Solubility

.R

R

.Antiparkinsonism drug

:Category

:Storage

REQUIREMENTS

%101.0

%98.5

:General requirement

$C_9H_{11}NO_4$

:Identity tests

10 .B R 100 A 0.5 .A
 R 5 RS 0.10
 30 .C R 100 0.5 .R
 1 .R 100 R 1 R
 20 C B A 10 .D A 1
 .D
 2
 potassium ferricyanide (/ 50) 1 TS (/ 25)
 A .(365) TS
 .B
 D
 R 5 0.18 :Assay
 0.1) R 25 R1 25
) A "Non-aqueous titration" VS (/
 .C₉H₁₁NO₄ 19.72 VS (/ 0.1) 1 .(131 1

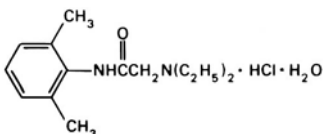
LIDOCAINI HYDROCHLORIDUM

Lidocaine hydrochloride

C₁₄H₂₂N₂O·HCl·H₂O :Molecular formula

288.8 :Relative molecular mass

:Graphic formula



:Chemical name

2-(Diethylamino)-2',6'-acetoxylidide monohydrochloride monohydrate; 2-(diethylamino)-N-(2,6-dimethylphenyl)acetamide monohydrochloride monohydrate; CAS Reg. No. 6108-05-0.

TS (/ 750~) 1.5 0.7
 .R R
 .Local anaesthetic
 ()
 :Description
 :Solubility
 :Category
 :Storage
 :Additional information

REQUIREMENTS

%99.0
 :General requirement
 $C_{14}H_{22}N_2O$, HCl %101.0
 :Identity tests
 .D C B C A •
 " :A
 .(43 1) "Spectrophotometry in the infrared region
reference spectrum
 TS (/ 80~) 10 0.15 :B
 TS 0.5 TS (/ 750~) 1
 2
 General " B / 0.05 :C
 .(121 1) "identification tests
 .TS (/ 7) 10 10 0.1 :D
 .() ° 230 . ° 105

				79 - 74	:Melting vange	
			1.0		:Heavy metals	()
(127	1) 1	"Limit test for heavy metals				"
	/ 10	(128 1) A				
	10 1.0	:Clarity and colour of solution				
			/ 1.0		:Sulfated ash	
Determination of water by		"			:Water	
	0.2	(145 1) A		"Karl Fischer method		
		/ 75		/ 50		
		.5.5 - 4.0 / 0.05			:pH value	
	4 0.10	:Primary aromatic amines				
		100		TS (/ 70~)		
		10 R		50		
	10					
15)			R	1		
	R	10	TS (/ 80~)		2.5	(
		10	TS (/ 80~)			5
(53	1)	"Colour of liquids				"
10	R1		30	0.55	:Assay	
	VS (/ 0.1)		TS	/		
(142	1) A	"Non-aqueous titration				"
	C ₁₄ H ₂₂ N ₂ O ₂ ·HCl	27.08	VS (/ 0.1)			1

Additional requirements for Lidocaine hydrochloride for parenteral use

(56 4) "Parenteral preparations"
 " :Bacterial endotoxins
 (30 5) "Test for bacterial endotoxins
 . 1 RS 1.1

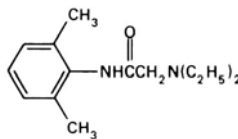
LIDOCAINUM

Lidocaine

$C_{14}H_{22}N_2O$:Molecular formula

234.3 :Relative molecular mass

:Graphic formula



:Chemical name

2-(Diethylamino)-2',6'-acetoxylidide; 2-(diethylamino)-N-(2,6-dimethylphenyl)acetamide; CAS Reg. No. 137-58-6.

:Description

R TS (/ 750~)

:Solubility

.R R

.Local anaesthetic

:Category

:Storage

()

:Additional information

%101.0

%99.0

:General requirement

$C_{14}H_{22}N_2O$

:Identity tests

			.C B	A	•	
			"		:A	
		(43	1	) "Spectrophotometry in the infrared region	
		<i>reference spectrum</i>		RS		
TS		0.5	TS (/ 750~)	1	0.1 :B	
					2	
.TS (/ 7~)		10	TS (/ 750~)	15	0.1 :C	
		() ° 230		° 105		
				° 69 - 66	:Melting range	
4		1.0			:Heavy metals ()	
"				21 TS (/ 750~)		
		(127	1	) 1	"Limit test for heavy metals
		/	20	(128	1) A
20 TS (/ 130~)			2	0.50	:Chlorides	
Limit test			"			
		/	0.5	(124	1) "for chlorides
		TS (/ 70~)		5	0.50	:Sulfates
(125		1) "Limit test for sulfates		"	
				/	1	
			/	1.0	:Sulfated ash	
R					:Loss on drying	
				/	5.0	
		4	0.10	:Primary aromatic amines		
			100		TS (/ 70~)	
			10	R	50	

	10						
)				.R	1		
R	10	TS (/ 80~)			2.5	(	15
	10	TS (/ 80~)			5	.	
	1	) "Colour of liquids	"				(53
				30	0.45		:Assay
Non-aqueous			"		VS (/ 0.1)		
VS (/ 0.1)				1	(142	1	) A "titration
						.C ₁₄ H ₂₂ N ₂ O	23.43

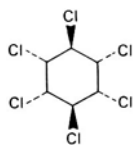
LINDANUM

Lindane

C₆H₆ Cl₆ :Molecular formula

290.8 :Relative molecular mass

:Graphic formula



:Chemical name

γ -1,2,3,4,5,6-Hexachlorocyclohexane; (1 α ,2 α ,3 β ,4 α ,5 α ,6 β)-
1,2,3,4,5,6-hexachlorocyclohexane; CAS Reg. No. 58-89-9.

Gamma benzene hexachloride

:Other name

.gammahexachlor cychohexane

:Description

R R ()

:Solubility

.R

.scabicide Pediculicide **:Category**

. . **:Storage**

%100.5 %99.0 **:General requirement**

C₆H₆ Cl₆

:Identity tests

" " :A

.(43 1) "Spectrophotometry in the infrared region

. *reference spectrum* RS

1 TS (/ 750~) 3 / 5.0 1 :B

B 10 TS1 /

1) "General identification tests "

.(121

.° 112.0 **:Congealing temperature**

1 30 1.2 **:Free Chlorides**

TS (/ 130~) 10 .

(124 1) "Limit test for chlorides "

. / 0.2

. / 1.0 **:Sulfated ash**

Determination of water by " **:Water**

1 (145 1) A "Karl Fischer method

. / 5.0

. 1 30 1.5 **:Acidity or alkalinity**

TS / 2 10

0.4 . 0.2 VS (/ 0.01)

. TS / 5 VS (/ 0.01)

TS (/ 750~)	25	0.4	:Assay
VS (/ 1) /		10	.
	150	10	
(/ 0.1)	50	10	TS (/ 130~)
VS (/ 0.1)			.VS
		TS (/ 45)	
.C ₆ H ₆ Cl ₆	9.693	VS (/ 0.1)	1 .

LITHII CARBONAS

Lithium carbonate

Li₂CO₃ :Molecular formula

73.89 :Relative molecular mass

.Dilithium carbonate ; CAS Reg. No. 55-13-2 :Chemical name

:Description

10

:Solubility

.TS (/ 750~)

.Antidepressant

:Category

:Storage

:Additional information

REQUIREMENTS

%99.5

:General requirement

Li₂CO₃ %100.5

:Identity tests

TS (/ 420~)

:A

	2	TS (/ 420~)		5	0.2	:B
TS (/ 40)				5	TS (/ 80~)	
		TS (/ 70~)				:C
			TS			
	10	1.0			:Heavy metals ()	
			40	4-3	TS (/ 60~)	
A		"Limit test for heavy metals			"	
				20	(128 1)	
			15	5.0	:Arsenic	
				45	brominated hydrochloric acid AsTS	
		"			stannous chloride AsTS	
	2		(130	1	) "Limit test for arsenic	
		30	1.0		:Calcium and magnesium	
			TS (/ 100~)		VS (/ 1)	
		TS (/ 25)		1		
	1		(	)	5	
)	5				TS (/ 40)	
						(
	30	TS (/ 130~)		3	0.35	:Chlorides
"Limit test for chlorides				"		
			0.7		(124 1)	
589	(47	1	)			:Sodium
1000			R			
2.0	(	1	0.2)	NaCl	508.4	
						/

	3	20	0.5	:Sulfates
Limit test for	"			TS (/ 250~)
	. / 1		(125	1) " sulfates
5.0	° 105			:Loss on drying
				. /
	50	100	0.75	:Assay
				VS (/ 1)
1	. TS /			VS (/ 1)
	.Li ₂ CO ₃	36.95		VS (/ 1)

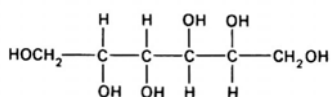
MANNITOLUM

Mannitol

C₆H₁₄O₆ **:Molecular formula**

182.2 **:Relative molecular mass**

:Graphic formula



:Chemical name

D-Mannitol; CAS Reg. No. 69-65-8.

:Description

TS (/ 750~)

:Solubility

.R

:Category

:Storage

:Additional information

REQUIREMENTS

%102.0	%98.0		:General requirement	
				C ₆ H ₁₄ O ₆
			:Identity tests	
80	100		1.0	:A
50~)			TS (/ 45)	
				TS (/
(35-32	1	) "Determination of specific optical rotation		"
				$[\alpha]_D^{20^\circ C} = +137 \text{ to } +145^\circ$
.R	0.5	R	2.5	0.5 :B
.(	) ° 123		1 ° 60	R
			° 169 – 165	:Melting range
		1	:Heavy metals	()
1) 1	"Limit test for heavy metals	()		"
(128	1) A		(127	10
			/	
		35	5.0	:Arsenic
2	(130	1) "Limit test for arsenic		"
			/	
TS (/ 130~)		2	2.5	:Chlorides
Limit test for		"		30
	/ 0.1		(124	1) "chlorides
		40	5.0	:Sulfates
0.1	(125	1) "Limit test for sulfates		"
			/	

10 1.0 :Clarity and colour of solution
R
. / 1.0 :Sulfated ash
° 105 :Loss on drying
. / 5.0
R 5 :Acidity
TS / VS (/ 0.02)
.() 0.3
" :Sorbitol
Thin - layer R1 (84 1) "chromatography
85 R / 2 15 R -2
.(A) 30 TS (/ 750~) 10 1
(B) R 2 A 1
. / 1
. 5
/ 1 ° 110
° 110 .VS (/ 0.5) R
B
.A
10 . 100 0.4 :Assay
2 R / 21.4 20.0
3 15 TS (/ 100~)
5 VS (/ 0.05) arsenite 25 R
VS (/ 0.05) 15 / 200 R
1.822 VS (/ 0.05) 1 . VS (/ 0.05)
.C₆H₁₄O₆

Additional requirements for Mannitol for parenteral use

(56	4	) "Parenteral preparations	"
"			:Bacterial endotoxins
(	30	5	) "Test for bacterial endotoxins
		1	RS IU 4
1	RS	IU	2.5 / 100
			/ 100

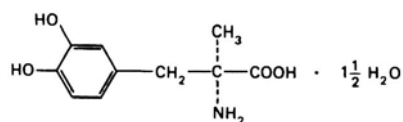
METHYLDOPUM

Methyldopa

$H_2O \frac{1}{2} C_{10}H_{13}NO_4, 1$:Molecular formula

238.2 :Relative molecular mass

:Graphic formula



:Chemical name

L-3-(3,4-Dihydroxyphenyl)-2-methylalanine sesquihydrate; 3-hydroxy- α -methyl-L-tyrosine sesquihydrate; CAS Reg. No. 41372-08-1.

:Description

R TS (/ 750~)

:Solubility

.R

:Category

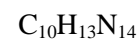
:Storage

REQUIREMENTS

%101.0

%98.5

:General requirement



:Identity tests

C B A •
" :A

(43 1) "Spectrophotometry in the infrared region
reference spectrum RS

"Thin layer Chromatography " :B

25 R -1 50 R2 (84 1)
5 25 R

1 10 :(A) VS (/ 1)
1 RS 10 :(B)

25) TS (/ 50) 1 TS (/

.B A
R -4 5 R 1 1 5 :C
TS (/ 200) 0.1

/ 44 **:Specific optical rotation**

$[\alpha]_D^{20^\circ C} = -25 \text{ to } -28^\circ$ TS

1 **:Heavy metals** ()

(127 1) 3 "Limit test for heavy metals "

/ 10 (128 1) A

/ 1 **:Sulfated ash**

Determination of water by " **:Water**

0.2 (145 1) A "the Karl Fischer method
. / 130 / 100
R 100 1 :Acidity
TS / VS (/ 0.1)
.() 0.5
" :3-O-Methyl derivative -3
R (84 1) "Thin layer chromatography
. 25 R 15 R -1 65
4 / 10 10 (A)
50 10 (B) R 96 TS (/ 250~)
(-)-3-(4-hydroxy-3- -2- (-3- -4)-3-(-) /
.B A 20 (C) methoxyphenyl) -2-methylalanine RS
5
R -4 / 3 45 R / 0.05
. 20 TS (/ 420~) 80
. TS (/ 75)
.A B
C
20 RI 20 0.20 :Assay
" VS (/ 0.1) R
1 .(142 1) A "Non-aqueous titration
.C₁₀H₁₃NO₄ 21.12 VS (/ 0.1)

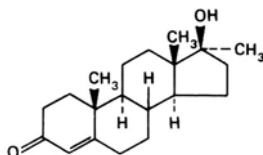
METHYLTESTOSTERONUM

Methyltestosterone

.C₂₀H₃₀O₂ :Molecular formula

302.5 :Relative molecular mass

:Graphic formula



:Chemical name

17β-Hydroxy-17-methylandrosta-4-en-3-one; CAS Reg. No. 58-18-4.

:Description

R TS (/ 750~)

:Solubility

.R

:Category

:Storage

REQUIREMENTS

%97.0

:General requirement

$C_{20}H_{30}O_2$ %102.0

:Identity tests

.C B

A

•

"

:A

.(43 1) "Spectrophotometry in the infrared region

reference spectrum

RS

"Thin layer chromatography

"

:B

10

kieselguhr R1

(84 1)

5

R

90 R

16

20 R 80 .

R 9 2 .R

1 : (B) 1 1 : (A) R

15 1 RS

-4 15 ° 120

10 ° 120 TS /

A . (365)

.B

. ° 165 :C

/ 10

:Specific optical rotation

$[\alpha]_D^{20^{\circ}C} = +78 \text{ to } +85^{\circ}$ TS (/ 750~)

(/ 750~) 10 0.5

:Solution in ethanol

" Yw2 TS

. (53 1) " Colour of liquids

10 ° 105

:Loss on drying

" /

:Related Substances

R2 (84 1) "Thin-layer chromatography

5 . R 10 R 90

1 10 : (A) TS (/ 750~)

. 1 0.10 : (B)

. (254)

.B A

TS (/ 750~) 20 **:Assay**

1 . 100 5 100

C20H30O2 . 242

RS

.03 ± 0.54

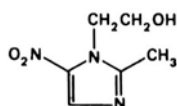
METRONIDAZOLUM

Metronidazole

$C_6H_9N_3O_3$:Molecular formula

171.2 :Relative molecular mass

:Graphic formula



:Chemical name

2-Methyl-5-nitroimidazole-1-ethanol; 2-methyl-5-nitro-1*H*-imidazole-1-ethanol; CAS Reg. No. 443-48-1.

:Description

R TS (/ 750~)

:Solubility

.R

:Category

:Storage

:Additional information

REQUIREMENTS

%99.0

:General requirement

$C_6H_9N_3O_3$ %101.0

:Identity tests

"
 :A
 (43 1) "Spectrophotometry in the infrared region
reference spectrume RS
 0.25 1 R 10 10 :B
 0.5 5 TS (/ 250~)
 .TS (/ 50) TS (/ 100)
 2 TSI -2 0.5 0.5
 - TS (/ 80~)

° 163 – 159 **:Melting range**

/ 1 **:Sulfated ash**

5.0 ° 105 **:Loss on drying**

/

:Related substances

9 R2 (84 1) "Thin layer chromatography
 5 R 1 R
) 1 20 :(A) R
 . 1 0.10 :(B) (
 .(254)
 .B A

3 R1 30 0.35 **:Assay**

(/ 0.1) T2 / -1

1) A "Non-aqueous titration " VS

.C₆H₉N₃O₃ 17.12 VS (/ 0.1) 1 .(142

Additional requirements for Metronidazole for parenteral use

.(36 4) "Parenteral preparations "

"
 (30 5) "Test for bacterial endotoxins
 . 1 RS 0.35

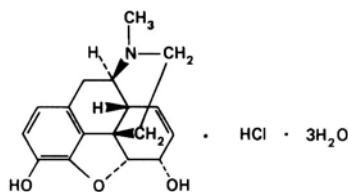
MORPHINI HYDROCHLORIDUM

Morphine hydrochloride

$C_{17}H_{19}NO_3, HCl, 3H_2O$:Molecular formula

375.9 :Relative molecular mass

:Graphic formula



:Chemical name

7,8-Didehydro-4,5 α -epoxy-17-methylmorphinan-3,6 α -diol
 hydrochloride (1:1) (salt) trihydrate; CAS Reg. No. 6055-06-7.

:Description

TS (/ 750~)

25

:Solubility

.R

:Category

:Storage

:Additional information

REQUIREMENTS

%98.0

:General requirement

C₁₇H₁₉NO₃, HCl %101.0

:Identity tests

3 / 1 5 :A
TS (/ 25) 1 TS (/ 10)
1 TS (/ 60~) 1 / 1 5 :B
TS (/ 80) (II) 1 TS (/ 100~)
TS (/ 1760~) 0.5 1 :C
TS
TS (/ 70) 5 :D
General - TS2 1
" B / 20 :E
(121 1) "identification tests

:Specific optical rotaion

$[\alpha]^{20\text{C}}_D = -109^\circ \text{ to } -115^\circ$

/ 1.0

:Sulfated ash

115 ° 105

:Loss on drying

/ 150 /

R

10 0.2 **:Acidity**

0.2 TS / VS (/ 0.02)

()

TS (/ 70~) 5 5 0.2 **:Meconate**

TS (/ 25)

15

:Related alkaloids

.R 10 TS (/ 10) 2

10 R

TS (/ 10) 4

10	.							5
/		1		VS (/ 0.01)				
8.75		VS (/ 0.02)						TS
		TS (/ 1760~)		()				
			2	0.05			:Noscapine	
R1		30		0.3			:Assay	
		VS (/ 0.1)		TS	/			10
(142	1	) A		"Non-aqueous titration			"	
		.C ₁₇ H ₁₉ NO ₃ .HCl	32.18	VS (/ 0.1)				1

Additional requirements for Morphine hydrochloride for parenteral use.

(56 4) "parenteral preparations"

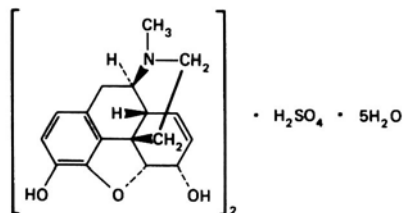
MORPHINI SULFAS

Morphine sulfate

(C₁₇H₁₉NO₃)₂, H₂SO₄, 5H₂O **:Molecular formula**

758.8 **:Relative molecular mass**

:Graphic formula



:Chemical name

7,8-Didehydro-4,5 α -epoxy-17-methylmorphinan-3,6 α -diol sulfate (2:1) (salt) pentahydrate; CAS Reg. No. 6211-15-0.

TS / VS (/ 0.02) 0.2

TS (/ 70~) 5 5 0.2 :Meconate

TS (/ 25)

15 0.5 :Related Alkaloids

.R 10 TS (/ 10) 2

10 R

TS (/ 10) 4

VS (/ 0.01) 5 10

VS (/ 0.02) TS / 8.75

TS (/ 1760~) 2 0.05 :Noscapine

R1 30 0.6 :Assay

potentionetrically VS (/ 0.1)

1 (142 1) A "Non-aqueous titration "

(C₁₇H₁₉NO₃)₂ · H₂SO₄ 66.88 VS (/ 0.1)

Additional requirements for Morphine sulfate for parenteral use

(56 4) "Parenteral preparations "

" :Bacterial endotoxines

(30 5) "Test for bacterial endotoxines

. 1 RS IU 14.29



NATRII CHLORIDUM

Sodium Chloride

NaCl :Molecular formula

58.44 :Relative molecular mass

:Chemical name

Sodium chloride; CAS Reg. No. 7647-14-5.

:Description

.TS (/ 750~)

:Solubility

:Category

:Storage

:Additional information

REQUIREMENTS

%99

:General requirement

NaCl %100.5

:Identity tests

General

"

:A

B

(123 1) "identification tests

. / 20

"

A

/ 20

:B

.(121 1)

"General identification tests

1

:Heavy metals

()

(127 1) 1

"Limit test for heavy metals

"

. / 10

(128 1) A

"

35 2.5

:Arsenic

. / 4

(130 1) "Limit test for arsenic

20 4 :Barium
 2 TS (/ 100~) 2 .
 30
 diffused light

2 / 10 20 :Calcium and magnesium
 TS (/ 25) TS(/ 100~)
 TS (/ 40)

3 2 :Iodides and bromides
 TS (/ 750~) 25
 5 R 1 5
 TS

5 0.5 :Iron and Sodium ferrocyanides
 1 6 TS (/ 100~)
 2 TS (/ 60~) 1 TS (/ 70~)
 0.4 B .A TS (/ 75~)
 A FeTS

(53 1) "Colour of liquids " B
 .(Fe / 16)
 " 20 1.7 :Sulfates
 (125 1) "Limit test for sulfates . / 0.3

10 1 :Clarity and colour of solution
 R

10 ° 130 :Loss on drying
 . /

R 20 2 :Acidity or alkalinity

0.1 TS / 2
 VS (/ 0.02) 0.2 VS (/ 0.02)
 .()
 0.1) 50 0.25 :Assay
 1 . TS (/ 100) VS (/
 .NaCl 5.844 VS (/ 0.1)

Additional requirements for sodium chloride for parenteral use

(56 4) "parenteral preparation"
 " :Bacterial endotoxins
 (30 5) "Test for bacterial endotoxins
 . 1 RS 5.0

NATRII HYDROGENOCARBONAS

Sodium hydrogen carbonate

NaHCO₃ :Molecular formula

84.01 :Relative molecular mass

:Chemical name

Monosodium carbonate; CAS Reg. No. 144-55-8.

.Sodium bicarbonate

:Other name

:Description

.TS(/ 750~)

:Solubility

:Category

:Storage

:Additional information

REQUIREMENTS

%99.0

:General requirement

NaHCO₃ %101.0

:Identity tests

General

"

:A

B

(123 1) "identification tests
/ 20

TS(/ 70~)

:B

TS

50)

/ 20

:C

TS(/

1

:Heavy metals

()

1) 1

"Limit test for heavy metals

"

/ 10

(128 1) A

(127

1.0

:Ammonium

35 3.3

:Arsenic

3

(130 1) "Limit test for arsenic

"

5 / 20

:Calcium

R

/ 50

:Carbonates

.8.6

TS (/ 130)

2

1.7

:Chlorides

Limit test for " 40
 . / 0.15 (124 1) "chlorides
 1 40 2.5 :Sulfates

Limit test for " TS (/ 250~)
 . / 0.2 (125 1) " sulfates

10 0.50 :Clarity and colour of solution

:Loss on drying

. / 2.5

0.2) 50 0.5 :Assay
 1 . TS / 3 VS(/
 .NaHCO₃ 16.80 VS(/ 0.2)

Additional requirements for sodium hydrogen carbonate for parenteral use

(36 4) "parenteral preparations "

:Bacterial endotoxins

(30 5) "Test for bacterial endotoxins

. 1 RS IU 5.0

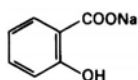
NATRII SALICYLAS

Sodium salicylate

C₇H₅NaO₃ :Molecular formula

160.1 :Relative molecular mass

:Graphic formula



:Chemical name

Sodium 2-hydroxybenzoate; CAS Reg. No. 54-21-7.

:Description

R

TS (/ 750~)

:Solubility

R

:Category

:Storage

:Additional information

REQUIREMENTS

%99.0

:General requirement

C₇H₅NaO₃ %101.0

:Identity tests

General

"

:A

B

(123 1) "identification tests

/ 20

"

/ 0.05

:B

(123 1)

"General identification tests

45

2.0

:Heavy metals ()

40

25

TS (/ 70~)

5

"

/ 20

(128 1) A

"Limit test for heavy metals

.TS(/ 710~)

5

5

1.25

:Chlorides

TS (/ 1000~)

1

(124 1) "Limit test for chlorides

"

. / 0.2
 1 20 0.85 :Sulfates
 " TS (/ 250~)
 . / 0.6 (125 1) "Limit test for sulfates
 1 20 1 :Sulfites and thiosulfates
 VS (/ 0.05) TS (/ 250~)
 . 0.15
 10 1.0 :Clarity and colour of solution
 Rd1
 . (53 1) "Color of liquids "
 5.0 ° 105 :Loss on drying
 . /
 10 R 50 2 :Acidity
 VS (/ 0.1) TS /
 . 0.2
 R1 30 0.3 :Assay
 Non aqueous " VS (/ 0.1)
 10.01 VS (/ 0.1) 1 . (142 1) A "titration
 .C₇H₅NaO₃

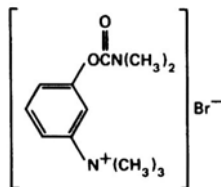
NEOSTIGMINI BROMIDUM

Neostigmine bromide

C₁₂H₁₉BrN₂O₂ :Molecular formula

303.2 :Relative molecular mass

:Graphic formula



:Chemical name

(*m*-Hydroxyphenyl)trimethylammonium bromide dimethylcarbamate; 3-[[dimethylamino]carbonyloxy]-*N,N,N*-trimethylbenzenaminium bromide; CAS Reg. No. 114-80-7.

:Description

R TS (/ 750~)

:Solubility

.R

:Category

:Storage

REQUIREMENTS

%98.0

:General requirement

$C_{12}H_{19}BrN_2O_2$ %101.0

:Identity tests

TS (/ 750~)	2	R	0.4	0.05	:A
diazobenzene-	2	2		3	disulfonic acid TS
TS (/ 7)	15	5	0.1		:B
General	() ° 185	"	A	/ 20	:C
"	(120	1	)	"	identification tests
"			40	2.5	:Sulfates
. / 0.2	(125	1	)	"	Limit test for sulfates

. / 1.5 :Sulfated ash
 20 ° 105 :Loss on drying
 . /
 7 R 20 0.2 :Acidity
 . 0.1 VS(/ 0.02)
:3-Hydroxy phenyltrimethylammonium bromide -3
 TS (/ 10) / 5.0 1
 2) 0.2 294
 .(1
 5 R1 20 0.25 :Assay
 .TS / 10 R ()
 "Non - aqueous titration " VS (/ 0.1)
 30.32 (/ 0.1) 1 .(142 1) A
 .C₁₂H₁₉BrN₂O₂

NICLOSAMIDUM

Niclosamide

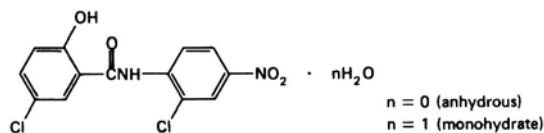
Anhydrous

monohydrate ()

.() C₁₃H₈Cl₂N₂O₄.H₂O () C₁₃H₈Cl₂N₂O₄ :Molecular formula

.() 345.1 () 327.1 :Relative molecular mass

:Graphic formula



:Chemical name

	° 105			:Loss on drying		
.	/ 60	/ 40			/ 5.0	
			40 0.8	:Acidity or alkalinity		
			0.2 TS /			10
0.4	TS /		5		VS (/ 0.01)	
					VS (/ 0.01)	
	R	20	0.1	:2-chloro -4-nitro aniline	-4-	-2
		50		VS (/ 1)		
	10			TS (/ 3)	1.0	10
1	10			TS (/ 25)		1
-2	10			.TS (/ 5)	(-1) -N	
					.R	-4-
		(53	1	) "Colour of liquids	"	
		10	0.5	:5-Chlorosalicylic acid	-5	
		TS (/ 25)				
	R		60		0.3	:Assay
					VS (/ 0.1)	
1	(142	1	) B	"Non - aqueous titration		"
	.C ₁₃ H ₈ Cl ₂ N ₂ O ₄		32.71	VS (/ 0.1)		

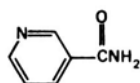
NICOTINAMIDUM

Nicotinamide

C₆H₆N₂O **:Molecular formula**

122.1 **:Relative molecular mass**

:Graphic formula



:Chemical name

3-Pyridinecarboxamide; 3-pyridinecarboxylic acid amide;
CAS Reg. No. 98-92-0.

:Description

TS (/ 750~)

:Solubility

.R R

:Category

:Storage

REQUIREMENTS

%101.0

%99.0

:General requirement

C₆H₆N₂O

:Identity tests

C B

A

•

"

:A

(43 1) "Spectrophotometry in the infrared region

reference spectrum

RS

2

2

10

10

:B

TSI

VS (/ 0.1)

TS (/ 25)

3

TS (/ 80~)

1

0.1

:C

° 131 – 128 **:Melting range**

1.0

:Heavy metals

()

1) 1

"Limit test for heavy metals

"

. / 30 (128 1) A (127
 10 2.5 :Clarity and colour of solution
 " Yw2
 .(53 1) "Colour of liquids
 . / 1.0 :Sulfated ash
) :Loss on drying
 R (5 0.6
 . / 5.0 R
 8.0 – R / 0.05 :pH value
 .6.0
 " :Related substances
 48 R₂ (84 1) "Thin layer chromatography
 . R 45 10 R
 TS (/ 750~) 5
 0.30 :(B) 1 0.12 :(A)
 . 1
 A .(254)
 .B
 5 R1 20 2.5 :Assay
 " VS (/ 0.1) R
 1 .(142 1) A "Non-aqueous titration
 .C₆H₆N₂O 12.21 VS (/ 0.1)

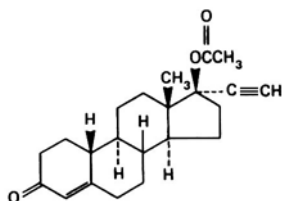
NORETHISTERONI ACETAS

Norethisterone acetate

$C_{22}H_{28}O_3$:Molecular formula

340.5 :Relative molecular mass

:Graphic formula



:Chemical name

17-Hydroxy-19-nor-17 α -pregn-4-en-20-yn-3-one acetate; 17-(acetyloxy)-19-nor-17 α -pregn-4-en-20-yn-3-one; 17 α -ethynyl-17-hydroxyestr-4-en-3-one acetate; CAS Reg. No. 51-98-9.

:Description

4 TS (/ 750~)

12.5

:Solubility

.R

R

:Category

:Storage

REQUIREMENTS

%97.0

:General requirement

$C_{22}H_{28}O_3$ % 103.0

:Identity tests

"

:A

.(43 1) "Spectrophotometry in the infrared region

reference spectrum

RS

"Related substances" :B
 .C B
 5 VS (/ 0.5) / 2 0.1 :C
 1 TS (/ 700~) 2 .
 .()
 R / 20 :Specific optical rotation
 . $[\alpha]_D^{20^{\circ}} = -32 \text{ to } -38^{\circ}$
 . / 1.0 :Sulfated ash
 5.0 ° 105 :Loss on drying
 . /
 " :Related substances
 R1 (84 1) "Thin-layer chromatography
 10 . R R
 10 : (A) R 3 5
 0.10 : (C) 1 0.10 : (B) 1
 . 1 RS
 15 ° 105 .TS /
 A .
 .B
 TS (/ 750~) 10 :Assay
 . 100 10.0 100
 C₂₂H₂₈O₃ . 240 1
 . RS
 .0.03 ± 0.51

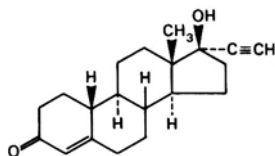
NORETHISTERONUM

Norethisterone

$C_{20}H_{26}O_2$:Molecular formula

298.4 :Relative molecular mass

:Graphic formula



:Chemical name

17-Hydroxy-19-nor-17 α -pregn-4-en-20-yn-3-one; 17 α -ethynyl-17-hydroxyestr-4-en-3-one; CAS Reg. No. 68-22-4.

:Description

TS (/ 750~)

150

:Solubility

. R

30

R

80

:Category

:Storage

REQUIREMENTS

%103.0

%97.5

:General requirement

$C_{20}H_{26}O_2$

:Identity tests

"

:A

.(43 1) "Spectrophotometry in the infrared region

reference spectrum

RS

"Related substances

"

:B

.C

B

R

/ 10

:Specific optical rotation

$[\alpha]_D^{20^\circ C} = -23 \text{ to } -27^\circ$

. / 1.0 **:Sulfated ash**

5.0 ° 105 **:Loss on drying**

. /

" **:Related substances**

95 R1 (84 1) "Thin-layer chromatography

10 . R 5 R

10 :(A) R 5

0.10 :(C) 1 0.10 :(B) 1

. 1 RS

15 ° 105 .TS /

A .

.B

TS (/ 750~) 10 **:Assay**

. 100 10.0 100

C₂₀H₂₆O₂ . 240 1

RS

.0.03 ± 0.58

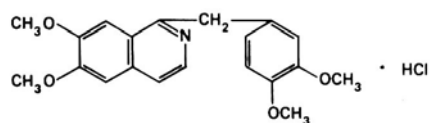
PAPAVERINI HYDROCHLORIDUM

Papaverine hydrochloride

C₂₀H₂₁NO₄, HCl **:Molecular formula**

375.9 **:Relative molecular mass**

:Graphic formula



:Chemical name

6,7-Dimethoxy-1-*veratryl*isoquinoline hydrochloride; 1-[(3,4-dimethoxyphenyl)methyl]-6,7-dimethoxyisoquinoline hydrochloride; CAS Reg. No. 61-25-6.

:Description

TS (/ 750~)

120

:Solubility

.R

R

:Category

:Storage

REQUIREMENTS

%98.5

:General requirement

C₂₀H₂₁NO₄, HCl %101.0

:Identity tests

.D C B

C A

•

"

:A

.(43 1) "Spectrophotometry in the infrared region

reference spectrum

RS

3

R

3

10

:B

4-3

TS (/ 1760~)

General

"

B

/ 20

:C

.(121 1)

"identification tests

TS (/ 100~)

10

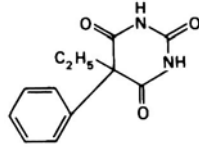
20

:D

) ° 146

° 105

:Graphic formula



:Chemical name

5-Ethyl-5-phenylbarbituric acid; 5-ethyl-5-phenyl-2,4,6-(1*H*,3*H*,5*H*)-pyrimidinetrione; CAS Reg. No. 50-06-6.

:Description

(/ 750~)

10

1100

:Solubility

.R

40

R

15

TS

:Category

:Storage

:Additional information

REQUIREMENTS

%101.0

%98.0

:General requirement

$C_{12}H_{12}N_2O_3$

:Identity tests

.D C B

A

•

"

:A

.(43 1) "Spectrophotometry in the infrared region
reference spectrum

TS (/ 750~)

5

20

:B

TS (/ 100~)

cobaltous chloride TS

1 VS (/ 0.1)

4

0.1

3

:C

TS (/ 65)

4

2

.TS (/ 100~)

5

10 TS (/ 1760~) 2 0.1 :D
 . - 10 R
 ° 178 – 174 :Melting range
 4.0 1.0 :Solution in alkali
 6.0 TS (/ 80~)
 / 1.0 :Sulfated ash
 ° 105 :Loss on drying
 . / 10
 50 2 50 1.0 :Acidity
 0.1 TS / 0.15 10
 .() VS(/ 0.1)
 TS(/ 750~) 5 1.0 :Phenyl barbituric acid
 . 3
 5 1.0 :Neutral and basic impurities
 .R 25 1 10 TS(/ 80~)
 1 ° 105 5 3
 . 3.0
 " :Related substances
 80 R2 (84 1) "Thin-layer chromatography
 260~) TS(/ 750~) 15 R
 TS(/ 750~) 10 . TS(/
 1 0.20 :(B) 1 10 :(A)
 .
 A .(254)
 .B
 2 R 30 0.20 :Assay

VS(/ 0.1) TS /
 "Non-aqueous titration "
 23.22 VS(/ 0.1) 1 .(142 1) B
 .C₁₂H₁₂N₂O₃

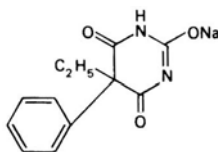
PHENOBARBITALUM NATRICUM

Phenobarbital Sodium

C₁₂H₁₁N₂NaO₃ :Molecular formula

254.2 :Relative molecular mass

:Graphic formula



:Chemical name

Sodium 5-ethyl-5-phenylbarbiturate; 5-ethyl-5-phenyl-2,4,6-(1*H*,3*H*,5*H*)-pyrimidinetrione monosodium salt; CAS Reg. No. 57-30-7.

() :Description

R TS (/ 750~) :Solubility

.R

:Category

:Storage

:Additional information

REQUIREMENTS

%98.0

:General requirement

$C_{12}H_{11}N_2NaO_3$ %101.0

:Identity tests

.D C B D A •

"

.(43 1) "Spectrophotometry in the infrared region
reference spectrum

TS (/ 70~) 2 10 0.2 :B

° 105

.C .() ° 175

TS (/ 750~) 5 B 20 :C

TS (/ 100~) Cobaltous chloride TS

General "

.(123 1) "identification tests
/ 20 B

10 1.0

:Clarity and Colour of solution

. 15 R

70 ° 140

:Loss on drying

R / 0.10

:pH value

.10.8 – 9.0

5 1.0 **:Neutral and basic impurities** ()

.R 25 1 10 TS (/ 80~)

1 ° 105 5 3

. 3.0

"

:Related substances

80 R2 (84 1) "Thin layer Chromatography
 260~) 5 TS (/ 750~) 15 R
 TS (/ 750~) 10 (/
 0.20 :(B) 1 10 :(A)
 . 1
 A .(254)
 .B

5 15 0.5 **:Assay**
 25 R 50 VS (/ 2)
 . 5
 2
 .° 105 R
 .C₁₂H₁₁N₂NaO₃ 1.095 1

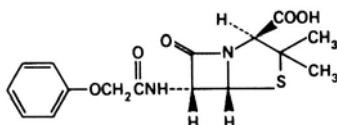
PHENOXYMETHYLPENCILLINUM

Phenoxymethylpenicillin

C₁₆H₁₈N₂O₅S **:Molecular formula**

350.4 **:Relative molecular mass**

:Graphic formula



:Chemical name

(2*S*,5*R*,6*R*)-3,3-Dimethyl-7-oxo-6-(2-phenoxyacetamido)-4-thia-1-azabicyclo[3.2.0]heptane-2-carboxylic acid; [2*S*-(2*α*,5*α*,6*β*)]-3,3-dimethyl-7-oxo-6[(phenoxyacetyl)amino]-4-thia-1-azabicyclo[3.2.0]heptane-2-carboxylic acid: CAS Reg. No. 87-08-1.

.TS (/ 750~) 7 1700

:Description
:Solubility
:Category
:Storage

:Additional information

REQUIREMENTS

%95.0

:General requirement

C₁₆H₁₈N₂O₂S %102.0

:Identity tests

.C B B A •
 " :A

.(43 1) " Spectrophotometry in the infrared region

reference spectrum

RS

2 2 :B
 1 TS(/ 1760~)

/ 2 2 :C
 1 TS

R -1 / 10

:Specific optical rotation

. [α]_D^{20°C} = +186 to + 200°

Determination of water by " :Water
0.3 (145 1) B "the Karl Fischer method
. / 15
.4 - 2.4 / 5.0 :pH value
0.1 :p-Hydroxyphenoxymethyl penicillin -
. 100 VS (/ 0.1)
) 0.36 306 1
.(1 2
20 :Ultraviolet absorbance range
100 -
274 1 .VS (/ 0.1)
.0.62 0.56
0.6 50 :Assay
. 1000 10 TS (/ 40)
2
° 60 TS / 10.0
10.0 .(A) ° 20 . 25
.(B)
325 1
.B A TS / 10.0 2.0
C₁₆H₁₈N₂O₅S B A
R
0.902 (C₁₆H₁₇KN₂O₅S) RS 1 TS (/ 40)
.(C₁₆H₁₈N₂O₅S)
.0.03 ± 0.63

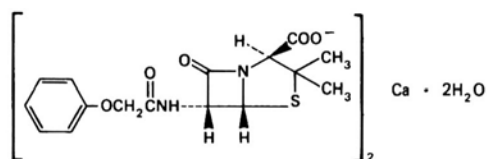
PHENOXYMETHYLPENICILLINUM CALCICUM

Phenoxymethylpenicillin calcium

$C_{32}H_{34}CaN_4O_{10}S_2 \cdot 2H_2O$ ($C_{16}H_{17}N_2O_5S$)₂Ca, 2H₂O :Molecular formula

774.9 :Relative molecular mass

:Graphic formula



:Chemical name

Calcium bis[(2*S*.5*R*.6*R*)-3,3-dimethyl-7-oxo-6-(2-phenoxyacetamido)-4-thia-1-azabicyclo[3.2.0]heptane-2-carboxylate] dihydrate; calcium bis[[2*S*-(2*α*,5*α*,6*β*)]3,3-dimethyl-7-oxo-6-[(phenoxycetyl)amino]-4-thia-1-azabicyclo[3.2.0]heptane-2-carboxylate] dihydrate; CAS Reg. No. 73368-74-8.

:Description

120

:Solubility

:Category

:Storage

:Additional information

REQUIREMENTS

%95.0

:General requirement

($C_{16}H_{17}N_2O_5S$)₂Ca %102.0

:Identity tests

.D C B

D A

"

:A

.(43 1) "Spectrophotometry in the infrared region

reference spectrum

RS

	2		2	:B
				TS (/ 1760~)
/	2		2	:C
				TS
				-
	TS (/ 70~)			:D
	"		TS (/ 100~)	
	.(120 1)		"General identification tests	
Determination of water by		"		:Water
. / 50	0.2	(145 1) A		"the Karl Fischer
R	/ 5.0			:pH value
				.7.5 -5.0
0.11	:p-Hydroxyphenoxymethylpenicillin			-
	VS (/ 0.1)			
) 0.36	306	1		. 100
	.(1		2	
20	:Ultraviolet absorbance range			
VS (/ 0.1)				-
274	1	. 100		
		.0.62	0.56	
		50	:Assay	
		2.0	. 1000	
	TS /	10.0		
.(A) ° 20		25 ° 60		
	.(B)	10.0		

		325		1		
.B	A	TS	/		10.0	2.0
		(C ₁₆ H ₁₇ N ₂ O ₅ S) ₂ Ca		B A		
	1			RS		
		0.951		(C ₁₆ H ₁₇ KN ₂ O ₅ S) RS		
.0.03 ± 0.63						.(C ₁₆ H ₁₇ N ₂ O ₅ S) ₂ Ca

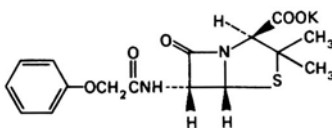
PHENOXYMETHYLPENICILLINUM KALICUM

Phenoxymethylpenicillin potassium

C₁₆H₁₇KN₂O₅S :Molecular formula

388.5 :Relative molecular mass

:Graphic formula



:Chemical name

Potassium (2*S*,5*R*,6*R*)-3,3-dimethyl-7-oxo-6-(2-phenoxyacetamido)-4-thia-1-azabicyclo[3.2.0]heptane-2-carboxylate; potassium [2*S*-(2*α*,5*α*,6*β*)]-3,3-dimethyl-7-oxo-6-[(phenoxyacetyl)amino]-4-thia-1-azabicyclo[3.2.0]heptane-2-carboxylate; CAS Reg. No. 132-98-9.

:Description

.R

R

1.5

:Solubility

:Category

:Storage

:Additional information

REQUIREMENTS

%95.0

:General requirement

$C_{16}H_{17}KN_2O_5S$ %102.0

:Identity tests

.D C B

D A

•

"

:A

.(43 1) "Spectrophotometry in the infrared region

reference spectrum

RS

2

2

:B

TS (/ 1760~)

/

2

2

:C

TS

2

:D

"General identification tests

"

TS (/ 80~)

.(123 1)

/ 10

:Specific optical rotation

$[\alpha]_D^{20^\circ} = + 215 \text{ to } + 235^\circ$

10

0.2

:Clarity of solution

15

$\circ 105$

:Loss on drying

. /

R

/ 5.0

:pH value

.7.5 – 5.0

0.11

:p-Hydroxyphenoxymethylpenicillin

–

VS(/ 0.1)

) 0.36 306 1 . 100
 .(1 2
 20 :Ultraviolet absorbance range
 VS (/ 0.1) -
 0.56 274 1 . 100
 .062
 . 1000 50 :Assay
 2
 TS / 100
 .(A) ° 20 . 25 ° 60
 .(B) 10.0
 325 1
 A TS / 10.0 2.0
 .B
 C₁₆H₁₇KN₂O₅S B A
 . RS
 .0.03 ± 0.63

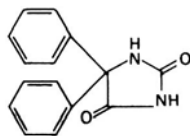
PHENYTOINUM

Phenytoin

C₁₅H₁₂N₂O₂ :Molecular formula

252.3 :Relative molecular mass

:Graphic formula



:Chemical name

5,5-Diphenylhydantoin; 5,5-diphenyl-2,4-imidazolidine-
dione; CAS Reg. No. 57-41-0.

:Description

TS (/ 750~)

:Solubility

.R R

:Category

:Storage

REQUIREMENTS

%101.0

%98.0

:General requirement

C₁₅H₁₂N₂O₂

:Identity tests

.D C B

A

•

"

:A

.(43 1) "Spectrophotometry in the infrared region

reference spectrum

RS

5 TS (/ 100~)

2

20 :B

TS (/ 40)

2 TS (/ 750~)

1

5 :C

TS (/ 80) (II)

R

.° 295

:D

1.0

:Heavy metals

()

(127 1) 3 "limit test for heavy metals

"

. / 10 (128 1) A

. / 1.0

:Sulfated ash

:Solubility

.R R TS (/ 750~)

:Category

:Storage

:Additional information

REQUIREMENTS

%98.5

:General requirement

C₁₅H₁₁N₂NaO₂ %101.0

:Identity tests

.E D C B

D A

•

TS (/ 70~)

20 0.1 :A

R

Spectrophotometry in the infrared

"

.(43 1) "region

reference spectrum

RS

1 9 R

1 0.1 :B

10 TS / (II)

TS (/ 100~)

1 10 :C

TS / (II)

.()

General

"

:D

B

(123 1) "identification tests

. / 20

TS (/ 70~)

20 0.1 :E

.() ° 295

R

6 24 1.0 :Heavy metals ()
 TS (/ 70~)
 " 40 .
 (128 1) A "Limit test for heavy metals . / 10
 8.0 20 :Solution in alkali
 VS (/ 0.1) 2.0 R
 Yw2
 .(53 1) "Colour of liquids "
 30 ° 105 :Loss on drying . /
 3 R1 30 0.55 :Assay
 (/ 0.1) TS / - 1
 1) A "Non-aqueous titration " VS
 .C₁₅H₁₁N₂NaO₂ 27.43 VS (/ 0.1) 1 .(142

Additional Requirements for Phenytoin Sodium for parenteral use

.(56 4) "Parenteral preparations "
 " :Bacterial endotoxins
 (30 5) "Test for bacterial endotoxins
 . 1 RS IU 0.3

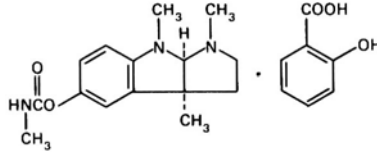
PHYSOSTIGMINI SALICYLAS

Physostigmine salicylate

C₂₂H₂₇N₃O₅ C₁₅H₂₁N₃O₂.C₇H₆O₃ :Molecular formula

413.5 :Relative molecular mass

:Graphic formula



:Chemical name

Physostigmine monosalicylate; (3a*S*-*cis*)-1,2,3,3a,8,8a-hexahydro-1,3a,8-trimethylpyrrolo[2,3-*b*]indol-5-ol, methylcarbamate (ester), mono-(2-hydroxybenzoate); CAS Reg. No. 57-64-7.

:Other name

:Description

TS (/ 750~)

:Solubility

.R

R

:Category

:Storage

1

:Additional information

REQUIREMENTS

%98.0

:General requirement

$C_{15}H_{21}N_3O_2$, $C_7H_6O_3$ %101.0

:Identity tests

TS (/ 80~)

/ 10

:A

()

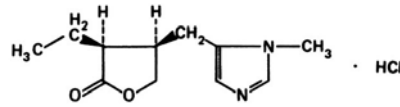
TS (/ 100~)

10

:B

.TS(/ 750~)

:Graphic formula



:Chemical name

Pilocarpine monohydrochloride; (3*S-cis*)-3-ethylidihydro-4-[(1-methyl-1*H*-imidazol-5-yl)methyl]-2(3*H*)-furanone monohydrochloride; CAS Reg. No. 54-71-7.

:Description

TS (/ 750~)

:Solubility

.R

R

:Category

:Storage

:Additional information

REQUIREMENTS

%98.5

:General requirement

$C_{11}H_{16}N_2O_2 \cdot HCl$ %101.0

:Identity tests

1 TS (/ 100~)

5

10

:A

R

1 TS (/ 60~)

TS (/ 100)

General

"

B

/ 0.05

:B

(121 1)

"identification tests

.° 203

:C

/ 50

:Specific optical rotation

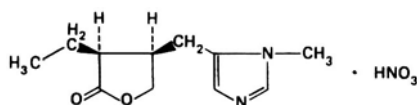
PILOCARPINI NITRAS

Pilocarpine nitrate

$C_{11}H_{16}N_2O_2 \cdot HNO_3$:Molecular formula

271.3 :Relative molecular mass

:Graphic formula



:Chemical name

Pilocarpine mononitrate; (3*S-cis*)-3-ethylidihydro-4-[(1-methyl-1*H*-imidazol-5-yl)methyl]-2(3*H*)-furanone mononitrate; CAS Reg. No. 148-72-1.

:Description

TS (/ 750~)

:Solubility

.R R

:Category

:Storage

:Additional information

REQUIREMENTS

%98.5

:General requirement

$C_{11}H_{16}N_2O_2 \cdot HNO_3$ %101.0

:Identity tests

1 TS (/ 100)

5 10 :A

R

1 TS (/ 60~)

			TS (/ 100)	
(/ 15)	2	/ 0.05	2	:B
"General identification tests		"	A	TS
			(122 1)	
			° 176	:C
/ 50			:Specific optical rotation	
			$[\alpha]_D^{20^\circ} = + 80 \text{ to } +83^\circ$	
30 TS (/ 130~)	2	0.7	:Chlorides	
"Limit test for chlorides		"		
	/ 0.35		(124 1)	
10 1.0			:Clarity and colour of solution	
	/ 2.0		:Sulfated ash	
20 ° 105			:Loss on drying	/
	.4.5 – 3.5	/ 5.0	:pH value	
"			:Related alkaloids	
R1	(84 1)	"Thin - layer chromatography		
(/ 260~)	0.4 R	20 R	25	
50 :(A)	5		TS	
	1	1.0 :(B)	1	
	TS2			
.B		A		
R1	30	0.55	:Assay	
Non-aqueous	"	VS (/ 0.1)		

27.13 VS (/ 0.1) 1 .(142 1) A "titration"
 .C₁₁H₁₆N₂O₂.HNO₃

Additional requirement for pilocarpine nitrate for sterile use

Test for sterility of non-injectable

.(32 5) *preparations* "

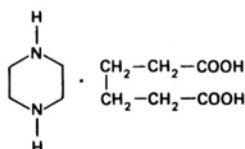
PIPERAZINI ADIPAS

Piperazine adipate

C₁₀H₂₀N₂O₄ C₄H₁₀N₂.C₆H₁₀O₄ :Molecular formula

232.3 :Relative molecular mass

:Graphic formula



:Chemical name

Piperazine hexanedioate (1:1); hexahydro-1,4-diazine adipate
 (1:1); CAS Reg. No. 142-88-1.

:Description

R TS (/ 750~)

:Solubility

.R

:Category

:Storage

REQUIREMENTS

%98.0

:General requirement

C₄H₁₀N₂, C₆H₁₀O₄ %101.0

:Identity tests

0.5 R 0.5 5 0.1 :A
.R 0.1 TS (/ 50)
20
.TS (/ 250~) 5 10 0.5 :B
.C 10
() ° 152 ° 105

0.5 . B :C
15 .R
° 105 10
(N, N'-dinitrosopiperazine -N N) ° 158

1.0 **:Heavy metals** ()
(127 1) 1 "Limit test for heavy metals"
/ 20 (128 1) A

. / 1.0 **:Sulfated ash**
5.0 ° 105 **:Loss on drying**
. /

.6.0 – 5.0 / 0.05 **:pH value**

0.25 **:Primary amines**
. 0.5 . 50
R / 10 0.5
/ 1 TS (/ 750~) 0.5
-4 3 30 ° 80 TS
10-7 570 .TS4

VS (/ 0.5) 3.5 0.20 :Assay
 15 TS (/ 7) 100 10
 TS (/ 7) 1
 R 10
 $C_4H_{10}N_2$, 426.8 1 ° 105
 $C_6H_{10}O_4$

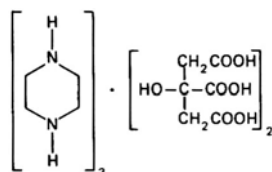
PIPERAZINI CITRAS

Piperazine citrate

() $C_{24}H_{46}N_6O_{14}$ ($C_4H_{10}N_2$)₃·2 $C_6H_8O_7$:Molecular formula

() 642.7 :Relative molecular mass

:Graphic formula



:Chemical name

Piperazine 2-hydroxy-1,2,3-propanetricarboxylate (3:2); hexahydro-1,4-diazine citrate (3:2); CAS Reg. No. 144-29-6 (anhydrous).

:Description

.R TS (/ 750~)

1.5 :Solubility

:Category

:Storage

:Additional information

REQUIREMENTS

	%98.0				:General requirement			
						(C ₄ H ₁₀ N ₂) ₃ .2C ₆ H ₈ O ₇	%101.0	
					:Identity tests			
1	0.5 R		0.5	5			0.1	:A
	.R	0.1	TS (/ 50)					
				20				
		"	A	/	20			:B
		(121 1)						"General identification tests
		° 185	° 105					:C
	0.5	TS (/ 70~)		5	0.2			:D
	10			15				.R
	- N N) ° 158		° 105					
						(N,N'-dinitrosopiperazine		
		1.0	:Heavy metals	()				
(127 1) 1		"Limit test for heavy metals						"
	/	20	(128 1) A					
			/	1.0	:Sulfated ash			
Determination of water by								:Water
	0.2	(145 1) A			"the Karl Fischer method			
		/	0.14	/	0.10			
		.6.0 - 5.0	/	0.05	:pH value			
	0.25				:Primary amines			
				0.5			50	
		R	/	10				0.5
TS	/		1	TS (/ 750~)			0.5	

-4 3 30 ° 80
 10 - 7 570 .TS4
 VS (/ 0.5) 3.5 0.20 :Assay
 15 TS (/ 7) 100 10
 TS(/ 7) 1
 R 10
 393.5 1 ° 105
 .(C₄H₁₀N₂)₃,2C₆H₈O₇

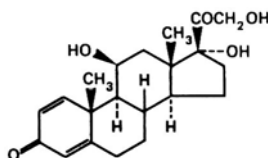
PREDNISOLONUM

Prednisolone

C₂₁H₂₈O₅ :Molecular formula

360.5 :Relative molecular mass

:Graphic formula



:Chemical name

11 β ,17,21-Trihydroxypregna-1,4-diene-3,20-dione; CAS Reg. No. 50-24-8.

:Description

R

30

1300

:Solubility

.R

R

:Category

:Storage

° 230

:Additional information

REQUIREMENTS

%97.0

:General requirement

C₂₁H₂₈O₅ %102.0

:Identity tests

.B A •
" :A

.(43 1) "Spectrophotometry in the infrared region
RS

reference spectrum

"Thin-layer chromatography " :B

10 Kieselguhr R1 (84 1)
. 5 R 90 R
16

2 R
2 :(A) R R 9

. 15 . 1 RS 2.5 :(B) 1

° 120

. 10 ° 120 TS / 15

.(365)

.B A

/ 10 :Specific optical rotation

. [α]_D^{20°C} = +96 to + 103° R

10 ° 105 :Loss on drying . /

"

77 R2 (84 1) "Thin-layer chromatography

1.2 R 8 R 15 R

R 9 1 .

0.30 :(B) 1 15 :(A) R

. 1

A 10 ° 105

.B

TS (/ 750~) 20 :Assay

. 100 5.0 100

C₂₁H₂₈O₅ . 242 1

. RS

2) 0.02 ± 0.44

. (1

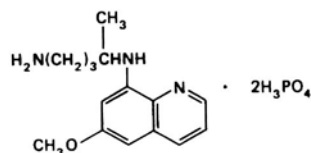
PRIMAQUINI DIPHOSPHAS

Primaquine diphosphate

.C₁₅H₂₁N₃O,2H₃PO₄ :Molecular formula

455.3 :Relative molecular mass

:Graphic formula



:Chemical name

8-[(4-Amino-1-methylbutyl)amino]-6-methoxyquinoline phosphate (1:2); *N*⁴-(6-methoxy-8-quinolinyl)-1,4-pentanediamine phosphate (1:2); CAS Reg. No. 63-45-6.

:Description

R TS (/ 750~)

:Solubility

.R

:Category

:Storage

REQUIREMENTS

%98.0

:General requirement

C₁₅H₂₁N₃O₂·2H₃PO₄ %102.0

:Identity tests

.D C B

C A

•

"

:A

.(43 1) "Spectrophotometry in the infrared region

reference spectrum

RS

TS / 1 5 10 :B

.()

TS (/ 130~) 3 / 20 1 :C

"General identification tests

"

A

.(122 1)

.° 202 :D

10 ° 105

:Loss on drying

. /

.3.5 – 2.5 / 10

:pH value

	"				:Related Substances	
	R1	(84	1	)	"Thin-layer chromatography	
R		5	R	4	TS /	3
5	1			20		5
R					TS(/ 35~)	0.5
					(365)	
1	)	"Nitrite titration	"		:Assay	
	.TS(/ 70~)			50	0.9	(143
	.C ₁₅ H ₂₁ N ₃ O,2H ₃ PO ₄	45.53	VS(/ 0.1)			1

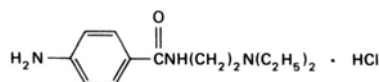
PROCAINAMIDI HYDROCHLORIDUM

Procainamide hydrochloride

.C₁₃H₂₁N₃O,HCl **:Molecular formula**

271.8 **:Relative molecular mass**

:Graphic formula



:Chemical name

p-Amino-*N*-[2-(diethylamino)ethyl]benzamide monohydrochloride; 4-amino-*N*-[2-(diethylamino)ethyl]benzamide monohydrochloride; CAS Reg. No. 614-39-1.

:Description

TS (/ 750~)

:Solubility

.R

R

:Category

:Storage

:Additional information

REQUIREMENTS

%98.0

:General requirement

C₁₃H₂₁N₃O₃·HCl %101.0

:Identity tests

(/ 200~)

10

10

1

:A

R

10

.R

10

TS

1

R

5

R

50

50

30

R

20

R

10

.TS (/ 200~)

TS (/ 375~)

30

() ° 185

.TS (/ 45)

2

2

0.1

:B

TS (/ 70~)

General

"

B

/ 0.05

:C

(121 1)

"identification tests

° 169 – 165 :Melting range

1.0

:Heavy metals

()

(127

1

) 3

"Limit test for heavy metals

"

. /

20

(128

1

) A

. / 1.0

:Sulfated ash

° 105 **:Loss on drying**
. / 3.0
 R / 0.10 **:pH value**
.6.5 - 5.0
 " **:Related substances**
 4 R2 (84 1) "Thin-layer chromatography
 . R -1
 50 :(A) TS (/ 750~) 2
 . 1 0.25 :(B) 1
 A . (254)
 .B
 15 R 5 0.25 **:Assay**
 20 R 20 .R1
 VS (/ 0.1) TS /
 1 .(142 1) A "Non-aqueous titration "
 .C₁₃H₂₁N₃O₂·HCl 27.18 VS (/ 0.1)

Additional requirements for procainamide hydrochloride for parenteral use

4) "Parenteral preparations" .(56
 " **:Bacterial endotoxins**
 (30 5) "Test for bacterial endotoxins
 . 1 RS IU 0.35

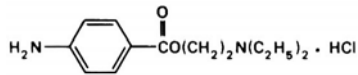
PROCAINI HYDROCHLORIDUM

Procaine hydrochloride

$C_{13}H_{20}N_2O_2 \cdot HCl$:Molecular formula

272.8 :Relative molecular mass

:Graphic formula



:Chemical name

2-(Diethylamino)ethyl *p*-aminobenzoate monohydrochloride;
2-(diethylamino)ethyl 4-aminobenzoate monohydrochloride; CAS Reg. No.
51-05-8.

:Description

TS(/ 750~)

25

:Solubility

.R

R

:Category

:Storage

:Additional information

REQUIREMENTS

%99.0

:General requirement

$C_{13}H_{20}N_2O_2 \cdot HCl$ %101.0

:Identity tests

.D C B

D A

•

"

:A

.(43 1) "Spectrophotometry in the infrared region

reference spectrum

RS

" 0.05 :B
(119 1) "General identification tests
TS (/ 100~) 5 5 0.05 :C
VS(/ 0.02)
" B / 0.05 :D
(121 1) "General identification tests
° 158 – 154 :Melting range
1.0 :Heavy metals ()
(127 1) 1 "Limit tests fro heavy metals "
/ 20 (128 1) A
10 1.0 :Clarity and colour of solution
R
/ 1.5 :Sulfated ash
10 ° 105 :Loss on drying
-5.0 R / 10 :pH value
.6.5
" :Related substances
R2 (84 1) "Thin-layer chromatography
R 4 R 16 R 80
0.10 :(A) 5
1 R -4 0.050 :(B) 1
10 ° 105
A .(254)

				.B
1	) "Nitrite titration	"		:Assay
TS (/ 70~)		50	0.5	(143
1	.VS(/ 0.1)		R	0.1
	.C ₁₃ H ₂₀ N ₂ O ₂ .HCl	27.28	VS (/ 0.1)	

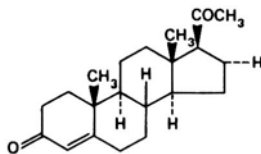
PROGESTERONUM

Progesterone

.C₂₁H₃₀O₂ :Molecular formula

314.5 :Relative molecular mass

:Graphic formula



:Chemical name

Pregn-4-ene-3,20-dione; CAS Reg. No. 57-83-0.

:Description

.TS (/ 750~)

8

:Solubility

:Category

:Storage

:Additional information

.° 121

° 130

REQUIREMENTS

%102.0	%97.0				:General requirement	
						C ₂₁ H ₃₀ O ₂
					:Identity tests	
				.B	A	•
			"			:A
		.(43	1	)	"Spectrophotometry in the infrared region	
<i>reference spectrum</i>			RS			
0.2	/	30	R			
"Thin-layer chromatography				"		:B
	10		kieselguhr R1		(84	1
		5		R	90	R
					16	
.R		50	R	50		
	R		9		5	
1.0	:(B)		1		1.0	:(A)
			15		1	RS
-4		15	° 120			
		10	° 120		TS	/
			.(	365)		
			.B			A
	/	10			:Specific optical rotation	
					. [α] _D ^{20°C} = + 186 to + 196°	R
5.0	° 105				:Loss on drying	

. /

"

R2 (84 1) "Thin-layer chromatography

R R

TS (/ 750~) 10

0.10 :(B) 1 10 :(A) R

. 1

A .(254)

.B

R 20 :Assay

1 . 100 5.0 100

C₂₁H₃₀O₂ . 240

. RS

.0.03 ± 0.54

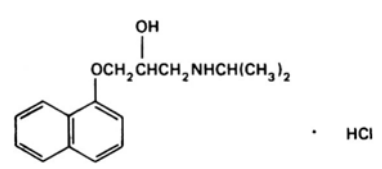
PROPRANOLOLI HYDROCHLORIDUM

Propranolol hydrochloride

C₁₆H₂₁NO₂·HCl :Molecular formula

295.8 :Relative molecular mass

:Graphic formula



:Chemical name

(±)-1-(Isopropylamino)-3-(1-naphthyloxy)-2-propanol hydrochloride; (±)-1-[(1-methylethyl)amino]-3-(1-naphthalenyloxy)-2-propanol hydrochloride; CAS Reg. No. 318-98-9.

					:Description
R			TS(/ 750~)		:Solubility
					.R
			.Antiadrenergic		:Category
					:Storage
REQUIREMENTS					
%98.0					:General requirement
					C ₁₆ H ₂₁ NO ₂ ,HCl %101.0
					:Identity tests
			"		:A
			.(43 1)	"	Spectrophotometry in the infrared region
<i>reference spectrum</i>			RS		
230	R	/	20		:B
	R	/	20		350
	.(319	306	290		) RS
	.%3				
2		)	0.15 0.25 0.42		1
				.(1	
General		"		B / 20	:C
			.(121 1)		"identification tests
				.° 165 – 161	:Melting range
	/	0.10			:Specific optical rotation

10 0.20 :Clarity and colour of solution
 " Yw2
 .(54 1) "Colour of liquids
 . / 1.0 :Sulfated ash
 5.0 ° 105 :Loss on drying
 . /
 .6.0 – 5.0 / 10 :pH value
 " :Related substances
 R2 (84 1) "Thin-layer chromatography
 2.5 2.5 R 60 R 140
 R 10 R
 1 0.05 :(B) 1 10 :(A)
 . 10 .
 A .(254)
 .B
 10 R1 50 0.6 :Assay
 TS /
 "Non-aqueous titration " VS (/ 0.1)
 29.58 VS (/ 0.1) 1 .(142 1) A
 .C₁₆H₂₁NO₂.HCl

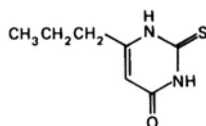
PROPYLTHIOURACILUM

Propylthiouracil

C₇H₁₀N₂OS :Molecular formula

170.2 :Relative molecular mass

:Graphic formula



:Chemical name

6-Propyl-2-thiouracil; 2,3-dihydro-6-propyl-2-thioxo-4(1H)-pyrimidinone; 6-propyl-2-thio-2,4(1H,3H)-pyrimidinedione; CAS Reg. No. 51-52-5.

:Description

TS (/ 750~)

:Solubility

.R R

:Category

:Storage

:Additional information

REQUIREMENTS

%98.0

:General requirement

C₇H₁₀N₂OS %100.5

:Identity tests

.D C B

A

•

"

:A

(43 1) "Spectrophotometry in the infrared region
reference spectrum

20

0.05 :B

0.4

5 R

0.04 R

				TS (/ 45)		
				TS1	25	:C
)		TS(/ 15)			10	
				.° 220		:D
			1.0	:Heavy metals	()	
(127	1) 3	"Limit test for heavy metals				"
	/ 20	(128 1) A				
			/ 1.0	:Sulfated ash		
5.0	° 105			:Loss on drying		/
			50	0.50	:Thiourea	
		10	50	5		
10			.TS (/ 0.1)		1	
	0.5					
	5		VS (/ 0.1)			5 R
	(53 1)	"Colour of liquids				"
	30	500		0.3	:Assay	
		VS (/ 0.1)		30	burette	
2 - 1	5		VS (/ 0.1)		50	
VS(/ 0.1)			TS /			
VS (/ 0.1)			1		-	
					.C ₇ H ₁₀ N ₂ OS	8.51

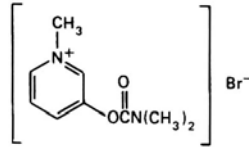
PYRIDOSTIGMINI BROMIDUM

Pyridostigmine bromide

$C_9H_{13}BrN_2O_2$:Molecular formula

261.1 :Relative molecular mass

:Graphic formula



:Chemical name

3-Hydroxy-1-methylpyridinium bromide dimethylcarbamate;
3-[[[(dimethylamino)carbonyl]oxy]-1-methylpyridinium bromide; CAS Reg. No.
101-26-8.

:Description

TS (/ 750~)

1

:Solubility

.R

R

:Category

:Storage

:Additional information

REQUIREMENTS

%98.5

:General requirement

$C_9H_{13}BrN_2O_2$ %101.1

:Identity tests

350

230

/

25

:A

1

270

.(1

2

) 0.46

."Related substances

"

:B

.C
 TS (/ 80~) 0.6 0.1 B :C
 General " A / 20 :D
 .(120 1) "identification tests
 .° 156 – 153 :Melting range
 . / 1.0 :Sulfated ash
 ° 105 :Loss on drying
 . / 20 (5 0.6)
 " :Related substances
 67 R1 (84 1) "Thin-layer chromatography
 . R 3 R 30
 :(B) 1 20 :(A) 10
 RS 0.10 :(C) 1 0.10
 - 4 . 1
 .VS (/ 0.1) TS2
 . TS2
 .B A
 10 R1 30 0.5 :Assay
 TS / TS /
 Non-aqueous " VS (/ 0.1)
 26.11 1 .(142 1) A "titration
 .C₉H₁₃BrN₂O₂

Additional requirements for Pyridostigmine bromide for parenteral use

.(56 4) "Parenteral preparations "
 " :Bacterial endotoxins

(30 5) "Test for bacterial endotoxins
 . 1 RS IU 17.0

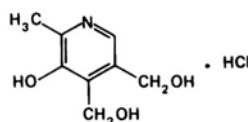
PYRIDOXINI HYDROCHLORIDUM

Pyridoxine hydrochloride

$C_8H_{11}NO_3, HCl$:Molecular formula

205.6 :Relative molecular mass

:Graphic formula



:Chemical name

5-Hydroxy-6-methyl-3,4-pyridinedimethanol hydrochloride;
 3-hydroxy-4,5-bis(hydroxymethyl)-2-methylpyridine hydrochloride; CAS Reg.
 No. 58-56-0.

:Description

TS(/ 750~)

:Solubility

.R R

:Category

:Storage

:Additional information

REQUIREMENTS

%98.5

:General requirement

$C_8H_{11}NO_3, HCl$ %101.0

0.1) / 10 :A
290 350 230 VS (/
2) 0.43 1
.(1
TS 6.9 / 0.5 :B
324 254 350 230
) 0.35 0.18 1
. 1 2
2 / 0.1 1 B A :C
1 B 1 A .TS (/ 150)
° 20 . TS (/ 50)
A TS / -6 2 1
.B
" B / 0.05 :D
.(121 1) "General identification tests
0.5 :Heavy metals ()
(127 1) 3 "Limit test for heavy metals "
. / 40 (128 1) A
10 0.50 :Clarity and colour of solution
. / 1.0 :Sulfated ash
) :Loss on drying
. / 5.0 R (5 0.6
.3.5 – 2.3 / 10 :pH value
R1 30 0.4 :Assay

VS(/ 0.1)	TS	/	10
(142 1) A	"Non-aqueous titration	"	
.C ₈ H ₁₁ NO ₃ ,HCl	20.56	VS (/ 0.1)	1

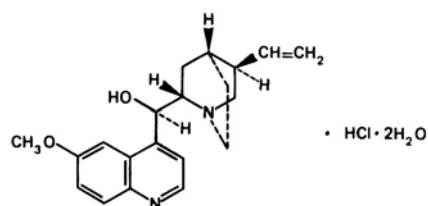
QUININI HYDROCHLORIDUM

Quinine hydrochloride

C₂₀H₂₄N₂O₂·HCl·2H₂O :Molecular formula

396.9 :Relative molecular mass

:Graphic formula



:Chemical name

(8 α ,9R)-6'-Methoxycinchonan-9-ol monohydrochloride (salt) dihydrate; (8 α ,9R)-9-hydroxy-6'-methoxycinchonan hydrochloride (1:1) (salt) dihydrate; CAS Reg. No. 6119-47-7.

:Description

.R

TS(/ 750~)

:Solubility

:Category

:Storage

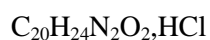
:Additional information

R

REQUIREMENTS

%98.5

:General requirement



% 101.0

:Identity tests

0.5
TS (/ 100~) :A
5 TS1 3-2 / 1 5 :B
" B / 10 TS (/ 100~) :C
"(121 1) "identification test

:Specific optical rotation

/ 20
[α]_D^{20°C} = - 240 to - 258° VS (/ 0.1)

:Barium

1 / 0.3 15 TS (/ 100~)
" 15

:Sulfates

20 0.5
/ 1 (125 1) "Limit test for sulfates

:Clarity and colour of solution

10 0.10

:Sulfated ash

/ 1.0

:Loss on drying

/ 100 / 60

R

/ 10

:pH value

.7.0-6.0

:Related cinchona alkaloids

R1 (84 1) "Thin-layer chromatography "
R 5 R 12 R 20
10 :(A) R 4
1 R 0.25 :(B) 1

		30	° 105						
	A								TS
									.B
		20		0.2					:Limit of dihydroquinine
	0.1	TS (/ 70)				15	R		0.5
		VS (/ 0.0167)						.TS /	
	5					200	R		0.5
		VS (/ 0.1)							
				1				TS	2
				.C ₂₀ H ₂₄ N ₂ O ₂ ,HCl		18.04		VS (/ 0.0167)	
		.%10							
	R1			50		0.35		:Assay	
		TS /				10	R		20
A	"Non-aqueous titration			"				VS (/ 0.1)	
	18.04	VS (/ 0.1)				1		.(142 1)	
								.C ₂₀ H ₂₄ N ₂ O ₂ ,HCl	

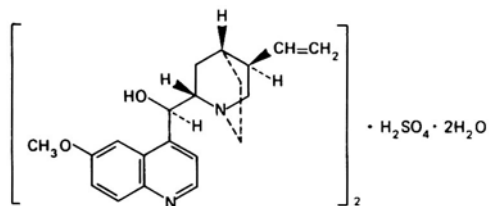
QUININI SULFAS

Quinine sulfate

(C₂₀H₂₄N₂O₂)₂,H₂SO₄,2H₂O **:Molecular formula**

783.0 **:Relative molecular mass**

:Graphic formula



:Chemical name

(8 α ,9*R*)-6'-Methoxycinchonan-9-ol sulfate (2:1) (salt) dihydrate; (8 α ,9*R*)-9-hydroxy-6'-methoxycinchonan sulfate (2:1) (salt) dihydrate; CAS Reg. No. 6591-63-5.

:Description

.R R TS(/ 750~)

:Solubility

:Category

:Storage

:Additional information

REQUIREMENTS

%99.0

:General requirement

(C₂₀H₂₄N₂O₂)₂·H₂SO₄

%101.0

:Identity tests

TS(/ 100~)

10 5 :A

5 TS1

/ 1 5 :B

TS(/ 100~)

General

" A / 20 :C

(123 1)

: "identification tests

/ 30

:Specific optical rotation

. [α]_D^{20°C} = -240 to - 250°

TS(/ 100~)

5

20

:Clarity and colour of solution

. 10

VS (/ 0.1)

"

Yw2

.(53 1) "Colour of liquids

. / 1.0

:Sulfated ash

° 105 :Loss on drying
 . / 50
 -5.7 R / 10 :pH value
 .6.6
:Related cinchona alkaloids
 R1 (84 1) "Thin-layer chromatography"
 R 5 R 12 R 20
 10 :(A) R 4
 . 1 R 0.25 :(B) 1
 30 ° 105
 A . TS
 .B
:Limit of dihydroquinine
 . 20 0.2
 0.1 TS (/ 70~) 15 0.5
 0.5 . VS(/ 0.0167) .TS /
 . 5 200 R
 2 VS(/ 0.1)
 0.0167) 1 . TS
 .(C₂₀H₂₄N₂O₂)₂,H₂SO₄ 24.90 VS (/
 .%10 .
 R1 30 0.20 :Assay
 VS (/ 0.1) R () 20
 1 .(142 1) A "Non-aqueous titration"
 .(C₂₀H₂₄N₂O₂)₂,H₂SO₄ 24.90 VS(/ 0.1)

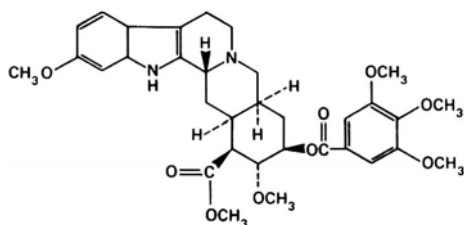
RESERPINUM

Reserpine

$C_{33}H_{40}N_2O_9$:Molecular formula

608.7 :Relative molecular mass

:Graphic formula



:Chemical name

Methyl 18 β -hydroxy-11,17 α -dimethoxy-3 β ,20 α -yohimban-16 β -carboxylate 3,4,5-trimethoxybenzoate (ester); methyl 11,17 α -dimethoxy-18 β -[(3,4,5-trimethoxybenzoyl)oxy]-3 β ,20 α -yohimban-16 β -carboxylate; CAS Reg. No. 50-55-5.

:Description

6 R

90

:Solubility

.R

TS (/ 750~)

R

R

:Category

:Storage

:Additional information

REQUIREMENTS

%102.0

%98.0

:General requirement

:Identity tests

•
 :A
 "Spectrophotometry in the infrared region
 RS
 0.2 1 :B
 TS (/ 205~)
 -4 5 0.5 :C
 TS (/ 1760~) 0.2
 R

:Specific optical rotation

$[\alpha]_D^{20^\circ C} = -113 \text{ to } -127^\circ$

:Sulfated ash

:Loss on drying

:Oxidation products

:Assay

•
 2 25
 750~) 10 VS (/ 0.25) 2 TS (/ 750~)
 5.0 TS (/ 750~) 100.0 TS (/
 2.0 10.0 50.0
 TS (/ 3) R 2.0 VS (/ 0.25)

1.0 . 30 ° 55
 .TS (/ 750~) 25.0 TS (/ 50)
 390 1
 10.0
 RS
 C₃₃H₄₀N₂O₉
 2) 0.01 ± 0.42
 .(1

Additional requirements for Reserpine for parenteral use

(36 4) "parenteral preparations" "
:Bacterial endotoxins
 30 5) "Test for bacterial endotoxins" "
 . 1 RS IU 71.5 (

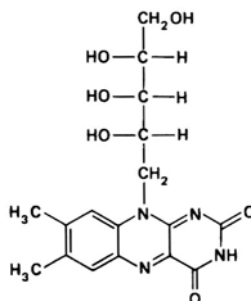
RIBOFLAVINUM

Riboflavin

C₁₇H₂₀N₄O₆ :Molecular formula

376.4 :Relative molecular mass

:Graphic formula



:Chemical name

7.8-Dimethyl-10-(D-ribo-2,3,4,5-tetrahydroxypropyl)isoalloxazine; CAS Reg. No. 83-88-5.

TS (/ 750~)

:Description

:Solubility

R R R

:Category

:Storage

:Additional information

REQUIREMENTS

%98.0 **:General requirement**

C17H20N4O6 %102.0

:Identity tests

" :A

(43 1) "Spectrophotometry in the infrared region

reference spectrum RS

100 1 :B

:Sulfated ash

15 / 3.0

:Loss on drying

° 105 /

:Lumiflavin

5 R 10 25

440 1

2) 0.025 R

(1

:Assay

	5	0.075	
.TS (/ 80~)		5	
R	2.5	100	
(/ 50)	1	10	1000
1	50		TS
	$C_{17}H_{20}N_4O_6$	444	RS

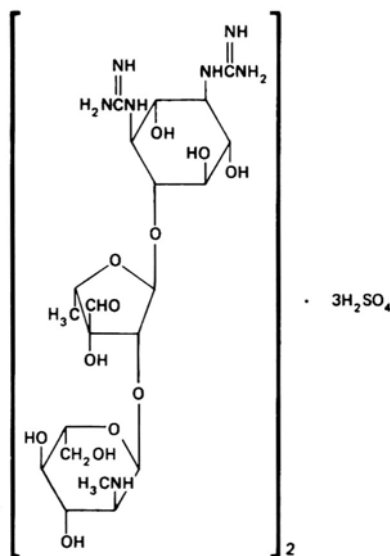
STREPTOMYCINI SULFAS

Streptomycin sulfate

$(C_{21}H_{39}N_7O_{12})_2 \cdot 3H_2SO_4$:Molecular formula

1457 :Relative molecular mass

:Graphic formula



:Chemical name

O-2-Deoxy-2-(methylamino)- α -L-glucopyranosyl-(1 \rightarrow 2)-*O*-5-deoxy-3-*C*-formyl- α -L-lyxofuranosyl-(1 \rightarrow 4)-*N,N'*-bis(aminoiminomethyl)-D-streptamine sulfate (2:3) (salt); CAS Reg. No. 3810-74-0.

R TS(/ 750~)

()

:Description

:Solubility

.R

:Category

:Storage

.° 30

:Labelling

:Additional information

REQUIREMENTS

%90.0

1 720 (C₂₁H₃₉N₇O₁₂)₂, 3H₂SO₄

:General requirement

:Identity tests

10 5 20 :A

1 TS (/ 250~) 3 VS (/ 1) TS(/ 25)

2 TS1 -1 1 2 0.1 :B

TS(/ 40~)

General " A / 20 :C

.(123 1) "identification tests

:Clarity and colour of solution

10 1.0

" Yw4

(53 1) "Colour of liquids
 0.6) ° 60 :Loss on drying
 / 70 (5
 -4.5 R / 0.25 :pH value
 .7.0
 0.05 5 0.2 :Methanol
 2.5 VS(/ 0.05)
 10
 .VS(/ 0.0167) 25 1
 30 TS(/ 1760~) 10
 TS (/ 80) 12.5 . 500
 TS VS (/ 0.1) 5
 .
 0.1) 1 . VS (/ 0.1)
 .CH₄O / 40 CH₄O 0.534 VS(/
 :Assay
 0.10 :For streptomycin sulfate
 5 5 . 100
 3 5 . 10 VS(/ 0.2)
 25 TS2
 525 1 TS2 20
 .
 .(E_{1 cm}^{1%} = 11.8) 1.18 (C₂₁H₃₉N₇O₁₂)₂·3H₂SO₄
 "
 :For potency
 (a) (155 1) "Microbiological assay of antibiotics
 7.9 Cm 1 (11774 ATCC 8236 NCTC) *Bacillus subtilis*

20 5) TS2 TS1 8.0 8.0 –
(ATCC 6633) *Bacillus subtilis* (b) ° 39 – 36 (IU
TS2 TS1 8.0 8.1 – 8.0 Cm1
.° 37 – 35 (IU 15 3)
%95 (P = 0.95)
720 (P = 0.95) . %105
1 IU

Additional requirements for Sterile Streptomycin Sulfate

" :Histamine-like substances
1 (167 1) "Test for histamine-like substances
.TS 1 3
" Sterility testing of " :Sterility
(162 1) Antibiotics

Additional requirements for Streptomycin sulfate for sterile use

Test for sterility on non- "
.(32 5) "injectable preparations
" :Bacterial endotoxins
(30 5) "Test for bacterial endotoxins
. 1 RS IU 0.25

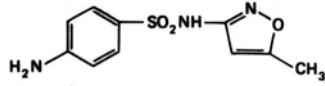
SULFAMETHOXAZOLUM

Sulfamethoxazole

$C_{10}H_{11}N_3O_3S$:Molecular formula

253.3 :Relative molecular mass

:Graphic formula



:Chemical name

N'-(5-Methyl-3-isoxazolyl)sulfanilamide; 4-amino-*N*-(5-methyl-3-isoxazolyl)benzenesulfonamide; CAS Reg. No. 723-46-6.

:Description

3 TS (/ 750~)

50

:Solubility

.R

:Category

:Storage

REQUIREMENTS

%99.0

:General requirement

$C_{16}H_{11}N_3O_3S$ %101.0

:Identity tests

.C B

C A

"

•

:A

.(43 1) "Spectrophotometry in the infrared region

reference spectrum

RS

5 TS (/ 80~)

0.5

5 :B

1

R

0.1

TS (/ 40)

"

0.1

:C

(119 1) "General identification tests

.° 172 – 168 :Melting range
 1.0 :Heavy metals ()
 (127 1) 3 " "
 . / 20 (128 1) A
 2.0 8.0 0.40 :Solution in alkali
 VS (/ 1)
 . / 1.0 :Sulfated ash
 5.0 ° 105 :Loss on drying
 . /
 R 50 1.0 :Acidity
 25 ° 20 . 5 ° 70
 VS (/ 0.1) 0.35 TS /
 " :Related substances
 20 R3 (84 1) "Thin-layer chromatography
 . R R R
 TS (/ 750~) 9 10
 . 1 2.5 :(A) TS (/ 260~)
 . 1 RS 12.5 :(B)
 TS
) 15 30 ° 105
 10 TS (/ 700~)
 15 .(100 R 3 R
 .TS / (-1) -N
 A .
 .B

1	) "Nitrite titration	"			:Assay
	20	40		0.5	(143
0.1)			TS (/ 70~)	15	R
.C ₁₀ H ₁₁ N ₃ O ₃ S	25.33		VS (/ 0.1)		1 .VS (/

Additional requirements for Sulfamethoxazole for parenteral use

(56 4) "Parenteral preparations"

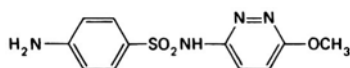
SULFAMETHOXYPYRIDAZINUM

Sulfamethoxypyridazine

C₁₁H₁₂N₄O₃S **:Molecular formula**

280.3 **:Relative molecular mass**

:Graphic formula



:Chemical name

*N*¹-(6-Methoxy-3-pyridazinyl)sulfanilamide; 4-amino-*N*-(6-methoxy-3-pyridazinyl)benzenesulfonamide; CAS Reg. No. 80-35-3.

:Description

TS (/ 750~)

:Solubility

.R

:Category

:Storage

:Additional information

REQUIREMENTS

%99.0

:General requirement

$C_{11}H_{12}N_4O_3S$ %101.0

:Identity tests

C B A •
" :A

(43 1) "Spectrophotometry in the infrared region

reference spectrum

RS

" 0.05 :B

(119 1) "General identification tests

TS (/ 100~) 10 20 :C

TS (/ 50) 0.1

° 183 – 180 **:Melting range**

1.0 **:Heavy metals** ()

(127 1) 3 " "

/ 20 (128 1) A

/ 1.0 **:Sulfated ash**

5.0

° 105

:Loss on drying

/

50 1.0 **:Acidity**

25 ° 20 5 ° 70

VS(/ 0.1) 0.35 7.0

"

:Related Substances

R3 (84 1) "Thin-layer chromatography

R		R		R	20
(/ 750~)	9		10		
	2.5	:(A)	TS (/ 260~)		TS
	1	RS		12.5	:(B)
/					
15			30	° 105	TS
		TS(/ 700~))
		(100 R		3 R	10
	.TS	/	(-1)-N		15
A					
		.B			
1	) "Nitrite titration	"			:Assay
	50		0.5	(143	
	1	.VS(/ 0.1)		TS (/ 70~)	
		.C ₁₁ H ₁₂ N ₄ O ₃ S	28.03	VS (/ 0.1)	

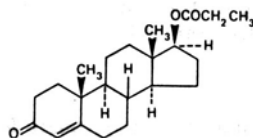
TESTOSTERONI PROPIONAS

Testosterone propionate

C₂₂H₃₂O₃ :Molecular formula

344.5 :Relative molecular mass

:Graphic formula



:Chemical name

17β-(1-Oxopropoxy)androst-4-en-3-one; 17β-hydroxyandrost-4-en-3-one propionate; CAS Reg. No. 57-85-2.

:Description

TS (/ 750~)

:Solubility

R

:Category

:Storage

REQUIREMENTS

%97.0

:General requirement

C₂₂H₃₂O₃ %102.0

:Identity tests

.C B

A

•

"

:A

.(43 1) "Spectrophotometry in the infrared region

reference spectrum

RS

Thin-layer chromatography

"

:B

10

kieselguhr R1

(84 1) "spectrum

5

R

90 R

16

6 R

4

R

R

9

2

1.0

:(B)

1

1.0

:(A)

. 12

. 1 RS

10 – 5 ° 120

10 ° 120

TS

/

– 4

. (365)
 .B A
 . ° 121 :C
 / 10 :Specific optical rotation
 . $[\alpha]_D^{20^{\circ}C} = +81 \text{ to } +91^{\circ} \text{ R}$
 750~) 10 0.50 :Solution in ethanol
 " Yw2 TS (/
 . (43 1) "Colour of liquids
 5.0 ° 105 :Loss on drying
 " /
 :Related substances
 R1 (84 1) "Thin-layer chromatography
 . 0.5 R 8 R 92
 R R 9 5
 1 0.20 :(B) 1 20 :(A)
 10 ° 110 .
 10 ° 110 TS / .
 A . (365)
 .B
 TS (/ 750~) 20 :Assay
 . 100 5.0 100
 . 241 1
 . RS C₂₂H₃₂O₂
 . 0.03 ± 0.50

TETRACYCLINI HYDROCHLORIDUM

Tetracycline hydrochloride

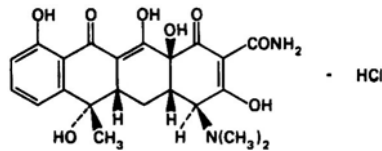
Tetracycline hydrochloride (non-injectable) ()

Tetracycline hydrochloride, sterile

$C_{22}H_{24}N_2O_8$, HCl :Molecular formula

480.9 :Relative molecular mass

:Graphic formula



:Chemical name

(4*S*,4*aS*,5*aS*,6*S*,12*αS*)-4-Dimethylamino-1,4,4*a*,5,5*a*,6,11,12*a*-octahydro-3,6,10,12,12*a*-pentahydroxy-6-methyl-1,11-dioxo-2-naphthacene-carboxamide monohydrochloride; [4*S*-(4*α*,4*aα*,5*aα*,6*β*,12*aα*)]-4-(dimethylamino)-1,4,4*a*,5,5*a*,6,11,12*a*-octahydro-3,6,10,12,12*a*-pentahydroxy-6-methyl-1,11-dioxo-2-naphthacene-carboxamide monohydrochloride; CAS Reg. No. 64-75-5.

:Description

TS(/ 750~)

100

10

:Solubility

.R

R

R

:Category

:Storage

:Labeling

:Additional information

.7

2

REQUIREMENTS

A				:General requirement	
	B	$C_{22}H_{24}N_2O_2, HCl$	% 102.0	% 96.0	
				1	950
				:Identity tests	
"Thin-layer chromatography		"			:A
120	:			(84	1)
			R	0.275	
.7.0	TS(/ 80~)				
	(80 - 60)		R1	30	
			0.4		
"related substances		"			
()	TS 4.5	/			
			30	° 50	
5.0	:				
RS		5.0 RS			5.0
10		R		RS	5.0
	5.0 RS			5.0	.A
.B	10		R		RS
5.0 RS			5.0 RS		5.0
	10		R		RS
					.C
		C B A		1	
	(8)			TS (/ 50)	
6 R	30 R		60		

. (365) . 15
TS (/ 260~)

A
 .B C

- TS (/ 1760~) 2 1 :B

General " B / 0.05 :C
 . (121 1) "identification tests

/ 10 **:Specific optical rotation**
 . $[\alpha]_D^{20^\circ C} = -239$ to -258° VS (/ 0.01)

0.6) $^\circ 60$ **:Loss on drying**
 . / 20 3 (5

.2.8 - 1.8 / 10 **:pH value**

" **:Related substances**

(84 1) "Thin-layer chromatography

VS (/ 0.1) .A

7.0 TS (/ 80~)

. 30 $^\circ 50$

0.10 :

10.0 A 2.5 .A 10 R

RS -4 5.0 .B R

10 K 2 .K 20 R

RS -4 5.0 .C R

10 L 2 .L 8 R

RS 5.0 .D R

R 10 M 2 .M 20 R

R RS 20 .E

R 10 N 2 .N 20
 R RS 10 .F
 P N M L K 0.5 .P 20
 .G
 G F E D C B A 1
 .(8) TS (/ 50)
 6 R 30 R 60
 . 15
 TS(/ 260~)
 B -4 .(365)
 .(-4 %5) D
 -4
 -4 %0.5) C A
 %2) F (%0.5) E (G .(

0.2 **:Anhydroderivatives**
 10 10.0 . 50 VS(/ 0.02)
 . TS 4.5 10 R
) 0.18 R 437
 .(1 2

:Assay
 5 ° 60 0.25 :A
 5 R 10 R1 10 TS (/ 1080~)
 VS (/ 0.1) TS /
 1 .(142 1) A "Non-aqueous titration"
 .C₂₂H₂₄N₂O₈.HCl 48.09 VS(/ 0.1)

Microbiological " :B
 8241 NCTC) *Bacillus pumilus* (a) (155 1) "assay of antibiotics
 4.5 6.6 – 6.5 Cm1 (14884 ATCC
 ° 39 – 37 (IU 20 2) TS
 Cm1 (11778 ATCC) *Bacillus cereus* (b)
 2 – 0.5) TS 4.5 6.0 - 5.9
 . ° 33 – 30 (IU
 . %105 %95 estimated potency ($P = 0.95$)
 1 IU 950 ($P = 0.95$)

Additional Requirements for Sterile Tetracycline Hydrochloride

Sterility testing of " :Sterility
 . (162 1) antibiotics"

Additional requirements for Tetracycline hydrochloride for sterile use

Test for sterility of non- "
 . (32 5) "injectable preparations
 " :Bacterial endotoxins
 (30 5) "Test for bacterial endotoxins
 . 1 RS IU 0.5

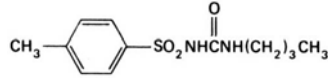
TOLBUTAMIDUM

Tolbutamide

$C_{12}H_{18}N_2O_3S$:Molecular formula

270.4 :Relative molecular mass

:Graphic formula



:Chemical name

1-Butyl-3-(*p*-tolylsulfonyl)urea; *N*-[(butylamino)carbonyl]-4-methylbenzenesulfonamide; CAS Reg. No. 64-77-7.

:Description

TS (/ 750~)

10

:Solubility

.R

:Category

:Storage

:Additional information

REQUIREMENTS

%101.0

%99.0

:General requirement

C₁₂H₁₈N₂O₃S

:Identity tests

.C B

A

•

"

:A

.(43 1) "Spectrophotometry in the infrared region

reference spectrum

RS

30

TS (/ 700~)

8

0.2

:B

.C

30

30

TS(/ 300~)

0.2

2

.VS (/ 0.1)

1

10

TS (/ 10)

10 R

. 30 TS (/ 100) 2.7 TS1 -4
 TS (/ 80~) 2.5
 ° 105 4 B :C
 ° 136
 ° 130 – 126 :Melting range
 1.0 :Heavy metals ()
 1) 3 "Limit test for heavy metals "
 . / 20 (128 1) A (127
 . / 1.0 :Sulfated ash
 5.0 ° 105 :Loss on drying . /
 " :Related substances
 15 R1 (84 1) "Thin-layer chromatography
 TS (/ 260~) R 3 R -2
 R 5 .
 - 4 0.05 :(B) 1 10 :(A)
 . 1 R
 TS1 10 ° 110
 TS / . TS /
 A . 5
 .B
 TS(/ 750~) 30 0.55 :Assay
 R 20 TS /
 TS / VS(/ 0.1)
 1 .

.C₁₂H₁₈N₂O₃S 27.04 VS(/ 0.1)

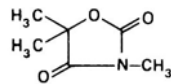
TRIMETHADIONUM

Trimethadione

C₆H₉NO₃ :Molecular formula

143.1 :Relative molecular mass

:Graphic formula



:Chemical name

3,5,5-Trimethyl-2,4-oxazolidinedione; CAS Reg. No. 127-48-0.

:Description

.R R TS (/ 750~)

:Solubility

:Category

:Storage

REQUIREMENTS

%101.0 %98.0

:General requirement

C₆H₉NO₃

:Identity tests

.D C B

A

•

"

:A

.(43 1) "Spectrophotometry in the infrared region

reference spectrum

RS

TS (/ 15)

2

/ 20

5

:B

30 TS (/ 80~) 10 0.5 :C
 TS(/ 70~)
 TS(/ 25) 0.5 .R
 .D
 10 R C :D
 () 30
 .(- α) ° 80
 ° 47 - 45 :Melting range
 . / 1.0 :Sulfated ash
 5.0 ° 105 :Loss on drying
 . /
 "Gas chromatography" :Assay
 (1) : .TS -2 .(101 1)
 R TS -2 5 RS 0.10
 R 0.20 (2) 10
 TS -2 5 0.20 (3) 10
 0.4 1.5 . 10 R
 R 10 adsorbent
 ° 105 Silanized keiselguhr R4 90
 1 C B A R
 C B A . 3 2
 .C A C₆H₉NO₃
 B

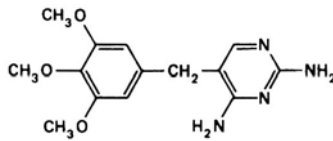
TRIMETHOPRIMUM

Trimethoprim

$C_{14}H_{18}N_4O_3$:Molecular formula

290.3 :Relative molecular mass

:Graphic formula



:Chemical name

2,4-Diamino-5-(3,4,5-trimethoxybenzyl)pyrimidine; 5-[(3,4,5-trimethoxyphenyl)methyl]-2,4-pyrimidinediamine; CAS Reg. No. 738-70-5.

:Description

.R

R

R

:Solubility

:Category

:Storage

REQUIREMENTS

%101.0

%98.5

:General requirement

$C_{14}H_{18}N_4O_3$

:Identity tests

"

:A

.(43 1) "Spectrophotometry in the infrared region

reference spectrum

RS

2

.(/ 0.005)

5

25

:B

0.1)

R

1.6

0.4

100

vs(/

VS (/ 0.5) 1 .TS
 R 2 .
 .(365)
 .° 200 :C
 . / 1.0 :Sulfated ash
 10 ° 105 :Loss on drying . /
 1 R 20 0.20 :pH value
 .8.5 – 7.5
 :Related Substances
) "Thin-layer chromatography" •
 10 R 85 R2 (84 1
 R 5 R
 5 17
 R 4.5 R 5
 0.080 :(B) 1 40 :(A) 1
 5
 .(254)
 TS (/ 70~) / 15 R
 . 20
 TS / .TS / 0.05
 A .
 .B
 R1 30 0.6 :Assay
 Non-aqueous " VS(/ 0.1)

29.03 VS(/ 0.1) 1 .(142 1) A "titration
C₁₄H₁₈N₄O₃

Additional requirements for trimethoprim for parenteral use

4) "*Parenteral preparations*"

.(56

**LIST OF REAGENTS, TEST SOLUTIONS, AND VOLUMETRIC
SOLUTIONS**

LIST OF REAGENTS, TEST SOLUTIONS, AND VOLUMETRIC SOLUTIONS

	211	167	1	2	<i>International Pharmacopoeia</i>
				.index	
	R			1	2
			VS		TS
	FeTS	FeR	AsTS	.	...
	)	Cm	.		
International	1			RS	(
Système international					.Chemical Reference Substances
			SRIP	.	(SI) d'Unites
	SRIP			.(1963)
° 20			d_{20}^{20}	d	.
					.° 20
					:Acetate standard buffer TS
			10	TS(/ 60~)	10 : :
	R				VS (/ 1)
					. 1000
					:Acetazolamide RS
	:			R	:R1

International who
 Chemical Reference Substances are available from: WHO Collaborating Center for Chemical Reference Substances, Apotekens Centrallaboratorium, Box 3045, 171 03 Solna 3, Sweden.

1.0 10 :Substances reducing dichromate
 VS (/ 0.0167)
 30 .TS(/ 1760~)

1.5 50
 3 VS(/ 0.1) .TS (/ 80)
 . TS
 .VS (/ 0.1) 0.60

10 40 :Substances reducing permanganate
 VS(/ 0.02) 0.30 ° 15
 () 10 ° 15
 .168 1

:Acetic anhydride/ dioxan TS /
 / 0.2) R 1 R 50 :Procedure
 .(

C₂H₃ClO %98.0 C₂H₃ClO **:Acetyl chloride R**
 .() B A
 :Description

1 1 1 :Phosphorous compound
 10 20 TS(/ 1000~)
 ° 40 TS /

50 1 (A) :Assay
 VS(/ 0.5) VS(/ 1)
 1 . TS /

250 A (B) .C₂H₃ClO 7.850 VS (/ 1)
 VS (/ 0.1) 50

7.850 (/ 0.1) 1 . TS (/ 100)

.C₂H₃ClO

:Allopurinol RS

(29 1963 SRIP) Al **:Aluminium R**

(30 1963 SRIP) AlCl₃, 6H₂O **:Aluminium chloride R**

:Aluminium chloride TS

100 R 65.0 *:Procedure*

10 R 0.5

VS (/ 0.5)

.C₇H₇NO₂ %98.5

:4-Aminobenzoic acid R - 4

:Description

8 9 170 *:Solubility*

.R R 50 TS (/ 750~)

° 189 – 186 *:Melting range*

1.0 *:Sulfated ash*

2.0 ° 105 *:Loss on drying*

° 105 0.3 *:Assay*

50 TS (/ 420~) 5

25 ° 15

() VS (/ 0.1)

.R /

13.71 VS (/ 0.1) 1

.C₇H₇NO₂

:Storage

.C₄H₁₁NO :2-Aminobutanol R -2

:Description

.R *:Miscibility*

.P₂₀ = 0.944-0.950 kg/l *:Mass density*

$n_D^{20} = 1.450-1.455$:Refractive index

0.5 TS (/ 750~)

4 0.05 :Identification

2.5 triketohydrineden hydrate R

:4-Amino-6-chloro-1,3benzenedisulfonamide R

3 1 - - 6 - - 4

$C_6H_8ClN_3O_4S_2$

:Description

.R TS (/ 100~)

:Solubility

R / 5

:Identification

265 312 265 223

$(E_{1cm}^{1\%} = 640) 64.0$

1.0 2 :Sulfated ash

:3-Aminopyrazole-4-carboxamide hemisulfate RS

- 4 - - 3

:Amitriptyline hydrochloride RS

:FeTS (/ 100~) Ammonia

(/ 100~) 5 : TS (/ 100~)

FeTS (/ 180) 2 40 TS

50 FeTS (/ 100~) R

()

.169 1

35 TS (/ 100~) **:TS (/ 35~) Ammonia**

$d \sim 0.985$ (/ 2) 1 NH₃

17 TS (/ 100~) **:TS (/ 17~) Ammonia**

$d \sim 0.992$ (/ 1) 1 NH₃

100 R **:TS (/ 100) Ammonium chloride**

1 NH₄Cl

. 1 C₆H₇N 25 R :TS (/ 25) Aniline
 .SbCl₃ 97.0 .SbCl₃ :Antimony trichloride R
) R R :Description
 :Solubility
 .(

25 5.0 :Chloroform-insoluble substances
 R R

. 1.0 ° 105
 4.0 30 0.5 :Assay
 .VS(/ 0.1) R 2 R
 .SbCl₃ 11.4 (/ 0.1) 1
 :

:Antimony trichloride TS
 100 R 22 :Procedure
 . 30 R 2.5 R
 R :Arsenic trioxide R1 ()
 :

420~) 20 R .1
 . 5 TS(/
 .R .4.0
 .2

20 1.0 :pH value
 .4.0
 . 10 10 :Chlorides
 VS(/ 0.1) TS (/ 1000~)

10 5.0 :Sulfides

TS(/ 80) 15 TS(/ 80~)
 R .Loss on drying
 . / 0.1
 . / 0.1 .Sulfated ash
:Atropine sulfate RS
 .C₁₂H₉N₃O₄ I (- 4)- 4 :Azo violet R
 .Description
 ° 193 .Melting temperature
:Azo violet TS
 R R 0.2 :Procedure
 .R
 .(46 1963 SRIP) Ba(OH)₂.8H₂O :Barium hydroxide R
 R :TS (/ 15) Barium hydroxide
 . 1 Ba(OH)₂ 15 R
 . (/ 15) :
:Benzalkonium chloride TS
 530 470 .
 .C₂₂H₄₀ClN
 .Description
 .TS(/ 750~) .Miscibility
 25 . 100 4 .Assay
 VS(/ 0.1) 10 R 25
 .TS (/ 50) 10
 10 R .
 TS (/ 420~) 40 .
 R 2 . VS (/ 0.05)
 6 20 .

TS (/ 420~) 40 TS (/ 80)
 VS(/ 0.05) (/ 0.05)
 .C₂₂H₄₀ClN 35.40 VS(/ 0.05) 1

Determination

C₂₂H₄₀ClN (31 1) " of mass density and relative density
 . /
 :

:Benzalkonium chloride TS1

TS 2 .Procedure

. 100

.(48 1963 SRIP) C₆H₆ **:Benzene R**

.C₇H₆O₂ %99.8 .C₇H₆O₂ **:Benzoic acid R**

.Description

R TS(/ 750~) :Solubility

.R

R 200 20 : Methanol-insoluble substances

. 30

. 1.0 ° 105 R

TS(/ 750~) 15 0.5 .Assay

20 TS /

TS / VS (/ 0.1)

12.12 VS (/ 0.1) 1 .

.C₇H₆O₂

.(50 1963 SRIP) C₇H₅ClO **:Benzoyl chloride R**

:Benzylpenicillin potassium RS

:Benzylpenicillin sodium RS

:Bephenium hydroxynaphthoate RS

:Betamethasone RS

(50 1963 SRIP) $4\text{BiNO}_3(\text{OH})_2 \cdot \text{BiO}(\text{OH})$ **:Bismuth oxynitrate R**

3,3-Deianisole-bis-[4,4- (3,5-diphenyl) $\cdot \text{C}_{40}\text{H}_{32}\text{Cl}_2\text{N}_3\text{O}_2$ **:Blue tetrazolium R**

.tetrazolium chloride]

:Description

R TS (/ 750~)

:Solubility

.R

R

R

.60000

252

:Molar absorptivity

TS (/ 750~)

:

:Suitability test

3 ° 105

R

()

-20 -15 10-

.

/

30

5

10

.

50

-15 -10

TS (/ 750~)

20

10 R

0.05

2.0 TS(/ 750~)

.TS /

2.0

TS (/ 750~)

525

90

.0.50

200

:Blue tetrazolium / ethanol TS

/

R

0.5

:Procedure

. 100

TS(/ 750~)

:Blue tetrazolium / sodium hydroxide TS

/

/ 2

:Procedure

.TS	R	/ 0.12	3	R
.(52	1963 SRIP)	$C_{21}H_{14}Br_4O_5S$	:Bromocresol green R	
		:Bromocresol green/ ethanol TS	/	
	2.9	R	0.1	:Procedure
		TS (/ 710~)	5	VS (/ 0.05)
		. 250		TS (/ 150~)
.(52	1963 SRIP)	$C_{21}H_{16}Br_2O_5S$	:Bromocresol purple R	
		:Bromocresol purple / ethanol TS	/	
TS(/ 750~)	100	R	0.05	:Procedure
				.
		:Bromothymol blue / dimethylformamide TS	/	
R		R	1.0	:Procedure
			. 100	
			:TS ,8.0	Buffer borate
50	R	0.309	R	0.25 :Procedure
			3.97	R
	R			VS (/ 0.2)
				. 200
			:TS, 9.0	Buffer borate
8.3		100	R	1.24 :Procedure
. 200				VS (/ 1)
			:TS, 9.6	Buffer borate
50	R	0.30	R	0.25 :Procedure
			36.85	R
	R			VS (/ 0.2)
				. 200

0.2)
 . 200

50 R

:TS, 6.4 **Buffer phosphate**

1.36 *.Procedure*

12.60 R

VS (/

:TS, 6.9 **Buffer phosphate**

3.55 R

3.40 *.Procedure*

R

. 1000

:TS, 3.4 **Buffer phthalate**

50 R

VS (/ 0.2)

. 200

2.04 *.Procedure*

10.40 R

R

:TS, 3.5 **Buffer phthalate**

50 R

VS (/ 0.2)

. 200

2.04 *.Procedure*

8.40 R

R

:Bupivacaine hydrochloride RS

.(54 1963 SRIP) C₄H₁₀O .[n-butanol R] **:1-Butanol R** - 1

.(CH₃)₃COH - 2 - - 2 **:tert.- Butanol R** - .

.Description

.R TS (/ 750~) *.Miscibility*

.° 83 81 %95 *.Boiling range*

.° 26 - 24 *.Melting range*

. / 0.782-0.778 = p₂₀ *.Mass density*

.Residue on evaporation

. / 0.05 ° 105

$C_4H_{11}N$ - 1 : **1-Butylamine R** - 1

.Description
.R TS (/ 750~) *.Miscibility*
.° 78 76 %95 *.Boiling range*
. / 0.740 = p₂₀ *.Mass density*
 Determination of water by " *.Water*
. / 10 5 (145 1) "Karl Fischer method
 TS 5 50 *.Acid impurities*
 VS (/ 0.1)

VS (/ 0.1) 1.0
 %98.0 $(CH_3CO_2)_2Cd \cdot 2H_2O$: **Cadmium acetate R**
 $(CH_3CO_2)_2Cd \cdot 2H_2O$
.Description
.Solubility
 260~) 25 50 1 *.Assay*
 R VS (/ 0.1) TS (/
 VS (/ 0.1) 1 .

$(CH_3CO_2)_2 Cd \cdot 2H_2O$ 26.65

: **Caffeine RS**

(.59 1963 SRIP) $Ca(OH)_2$: **Calcium hydroxide R**

: **Calcium hydroxide TS**

.R *.Procedure*

. TS *.Note*

: **Carbomer R**

(%68 - 56)

. 1 ° 80 (-COOH)

TS (/ 100~) 50 1 :Assay
R / 10 0.1
1 . TS - VS (/ 0.05)
.Ce(SO₄)₂,2(NH₄)₂SO₄,2H₂O 63.26 VS (/ 0.05)
:Ceric ammonium sulfate/nitric acid TS /
130~) R 5 :Procedure
. 100 TS (/
:VS (/ 0.1) Ceric ammonium sulfate
30 500 R 65.0 :Procedure
. 1000 .TS(/ 1760~)
: / 0.1 :Method of standardization
15 R1 0.2
50 .VS (/ 0.2)
/ 2.5 R 0.15 TS (/ 100~)
.TS - 0.1 TS(/ 100~)
.
.
.
:**Chloramphenicol RS**
:**Chloroform, ethanol-free, R**
3 20 R 20 :Procedure
. -20
5 R 5
.
.
2
:**5-Chloro-2-methylaminobenzophenone RS** - 4 - - 5
.
.C₆H₅ClN₂O₂ :**2-Chloro-4-nitroaniline R** - 4 - - 2
.
:*Description*

.TS (/ 750~) :Solubility

.° 108 – 106 :Melting range

. / 0.5 :Sulfated ash

:2-(4-Chloro-3-sulfamoyl)benzoic acid RS (- 3 - - 4) - 2

:Chlorphenamine hydrogen maleate RS

:Chlorpromazine hydrochloride RS

:Chlortalidone RS

:Chlortetracycline hydrochloride RS

:Chromic acid TS

700 R 84 :Procedure

.TS (/ 1760~) 400

(68 1963 SRIP) CrO₃ **:Chromium trioxide R**

.C₁₉H₂₂N₂O **:Cinchonidine R**

.Description

.TS (/ 750~) :Solubility

.° 207 :Melting temperature

750~) / 50 :Specific optical rotation

. [α]_D^{20°C} = -105 to -110° TS (/

:TS 5.4 Citrate buffer

20 R 2.101 :Procedure

76.5 . 100 VS (/ 1)

.VS(/ 0.1) 23.5

R **:Citric acid, copper-free. R**

TS (/ 100~) 20 0.50 :

TS (/ 0.8) 1 50

$C_6H_8O_7$ 20 R :TS (/ 20) Citic acid
 1
 :Cloxacillin sodium RS
 :Cobaltous chloride TS
 2.5 R 6.5 :Procedure
 100 97.5 TS (/ 250~)
 :Colbatous thiocyanate TS
 R 4.3 R 6.8 :Procedure
 100
 $C_{18}H_{21}NO_3, H_2O$:Codeine R
 :Description
 .R TS (/ 750~) : Solubility
 $\cdot^{\circ} 156$:Melting temperature
 750~) / 20 :Specific optical rotation
 $[\alpha]_D^{20^{\circ}C} = -142$ to -146° TS (/
 :Colecalciferol RS
 %98.0 $C_4H_6CuO_4, H_2O$:Copper (II) acetate R (II)
 $C_4H_6CuO_4, H_2O$
 :Description
 :Solubility
 2 50 0.8 :Assay
 0.1) R 3 TS (/ 300~)
 2 TS VS (/
 1 R
 $C_4H_6CuO_4, H_2O$ 19.97 VS (/ 0.1)

				:Copper edetate TS	
2	R (II)	/ 20	2	<i>.Procedure</i>	
		50	VS (/ 0.1)		
	R (II)	:TS (/ 80)	Copper (II) sulfate (II)		
		(/ 0.5)	1	CuSO4	80
		:Copper (II) sulfate /ammonia TS	/ (II)		
	.TS (/ 35~)	1000	R (II)	50	<i>.Procedure</i>
		:Copper (II) sulfate /pyridine TS	/ (II)		
.R	30	90	R (II)	4	<i>.Procedure</i>
		/ (II)			<i>.Note</i>
		.C ₇ H ₈ O	-2	:o-Cresol R	
					<i>.Description</i>
50	R	R	TS (/ 750~)		<i>.Miscibility</i>
			/ 1.05	= p ₂₀	<i>.Mass density</i>
			.1.550 – 1.540	= n _D ²⁰	<i>.Refractive index</i>
			.° 190		<i>.Boiling temperature</i>
			.° 30.5		<i>.Freezing temperature</i>
					<i>.Residue on evaporation</i>
			/ 1.0	° 105	
					<i>.Storage</i>
					<i>.Note</i>
			:Cyanide/ oxalate/ thiosulfate TS	/ /	
1.5 :		TS (/ 100~)	2.0		<i>.Procedure</i>
	45	TS (/ 50)	15	TS (/ 50)	
	75	TS (/ 320)	120	TS (/ 60)	

.VS (/ 1) 35 TS (/ 60)

TS / / .Note

:Cyanoethylmethyl silicone gum R

:Cyanogen bromide TS

.Caution

TS(/ 100)

.Procedure

TS1

TS .Note

/ 2

R

:Cyclohexane R1

400

VS (/ 0.05)

R

. 365

1

:Dapson RS

:Dexamethasone RS

:Dexamethasone acetate RS

] :Diammonium hydrogen phosphate R

.(83 1963 SRIP) (NH₄)₂HPO₄. [R

:TS (/ 100) Diammonium hydrogen phosphate

. 1 (NH₄)₂HPO₄ 100 R

:Diazepam RS

:Diazobenzenesulfonic acid TS

10 R 0.9 .Procedure

3 . 100 TS (/ 250~)

20 5 TS(/ 3) 5

100 TS(/ 3)

15

TS

.Note

:Diazomethane TS

.Caution

750~) 10 R 0.4 .Procedure
 - 4 - - N - - N 2.14 TS (/
 . R 30 N-mythyl-N-nitrosotoluene-4-sulfonamide R
 5 . TS (/ 750~)
 . 1 CH₂N₂ 10

.Alternative procedures

.CH₂N₂**:Diazoxide RS**.C₈H₁₈O Di-n-butyl ether

- n -

:Dibutyl ether R

R

.Caution

.Description

.R TS (/ 750~)

.Miscibility

.° 143 – 140 .Boiling range

. / 0.769 = p_{20} .Mass density.1.344 = n_D^{20} .Refractive index.C₁₆H₂₂O₄ Di-n-butyl phthalate

- n -

:Dibutyl phthalate R

.Description

.R TS (/ 750~)

.Miscibility

. / 1.048 – 1.043 = p_{20} .Mass density.1.495 - 1.492 = n_D^{20} .Refractive index

. / 0.2 .Sulfated ash

SRIP) $C_2H_4Cl_2$ 1,2-Dichloroethane -2 1 :Dichloroethane R
 .(76 1963

1963 SRIP) $C_6H_2Cl_3NO$:2,6-Dichloroquinone chlorimide R -6 2
 .(77

:2,6-Dichloroquinone chlorimide/ ethanol TS / -6 2
 R -6 2 0.5 :Procedure
 . 100 TS(/ 750~)

:Dicoumarol RS

$C_8H_{16}O_3$:Diethoxytetrahydrofuran R

.trans cis
 .Description
 .R TS (/ 750~) .Miscibility
 . / 0.975 = p_{20} .Mass density
 .1.418 = n_D^{20} .Refractive index

:Diethoxytetrahydrofuran/ acetic acid TS /
 R 1 .Procedure
 . 100 R

$C_4H_{11}N$ %99.5 $C_4H_{11}N$:Diethylamine R
 .Description

. / 0.704 - 0.702 = p_{20} .Mass density
 .1.386 - 1.384 = n_D^{20} .Reflective index

VS (/ 0.5) 50 3 :Assay
 TS / VS (/ 1)
 $C_4H_{11}N$ 73.14 VS (/ 0.5) 1 .

:Diethylcarbamazine dihydrogen citrate RS

:Diethylene glycol succinate R

(78 1963 SRIP) $C_{55}H_{90}O_{29}$ **:Digonin R**

:Digitonin TS

TS (/ 710) R 0.10 *.Procedure*

. 10

. TS *.Note*

:Digitoxin RS

:Digoxin RS

C_2H_7N **:Dimethylamine R**

° 7 *.Description*

R TS (/ 750~) *.Solubility*

R **:Dimethylamine/ ethanol TS /**

C_2H_7N / 350 TS (/ 750~)

50.0 2 .TS (/ 750~) 10 2 *.Assay*

(/ 0.1) . VS (/ 0.05)

VS (/ 0.05) 1 . TS / VS

C_2H_7N 4.508

] 4-Dimethylaminobenzaldehyde R - 4

(78 1963 SRIP) $C_9H_{11}NO$ **:[dimethylaminobenzaldehyde R**

:4-Dimethylaminobenzaldehyde TS1 - 4

65 R -4 0.125 *.Procedure*

.TS (/ 25) 0.2 35 TS (/ 1760~)

. TS1 -4 *.Note*

:4-Dimethylaminobenzaldehyde TS2 -4

80 R -4 0.80 *.Procedure*

		.TS(/ 1760)		20	TS(/ 750~)	
		:4-Dimethylaminobenzaldehyde TS3				- 4
TS(/ 750~)	50	R	-4	0.5	.Procedure	
(/ 750~)			TS(/ 420~)			1
				. 100		
		:4-Dimethylaminobenzaldehyde TS4				- 4
5		R	-4	2	.Procedure	
		.R		95	TS(/ 420~)	
		.C₁₁H₁₃NO :4-Dimethylaminocinnamaldehyde R				- 4
					.Description	
TS(/ 70~)					.Solubility	
					TS (/ 750~)	
		:4-Dimethylaminocinnamaldehyde TS1				- 4
100		R	-4	2	.Procedure	
		.TS (/ 750~)		100	VS (/ 5)	
			.° 0		.Storage	
		:4-Dimethylaminocinnamaldehyde TS2				- 4
	TS1		- 4	20	.Procedure	
			. 100		TS(/ 750~)	
	. TS2		- 4		.Note	
		.(79 1963 SRIP) C₆H₄N₂O₄ :Dinitrobenzene R				
		:Dinitrobenzene/ ethanol TS				/
TS(/ 750~)		R		1	.Procedure	
				. 100		
		.C₂₆H₄₂O₄ :Dinonyl phthalate R				
					.Description	

. / 0.98 – 0.97 = p_{20} .Mass density
 .1.489 – 1.482 = n_D^{20} .Refractive index
 Determination of water by " .Water
 1.0 2 (145 1) "the Karl Fischer method . /
 . 1 25 5.0 .Acidity
 0.3 TS / 5
 .(/ 0.5) VS (/ 0.1)
 .(81 1963 SRIP) $C_{12}H_{11}N$:Diphenylamine R
] :Disodium chromotropate R
 . $C_{10}H_6Na_2O_8S_2 \cdot 2H_2O$:[chromotropic acid sodium R
 . .Description
 .TS (/ 750~) .Solubility
 1 10 / 2 0.5 .Identification
 . TS (/ 25)
 4 TS (/ 1760~) 9 10 5 .Sensitivity
 . 1000 TS 0.5 .
 0.2 5
 30
 .
 :TS (/ 10) Disodium chromotropate
 . 1 $C_{10}H_6Na_2O_8S_2$ 9.5 R
 R :TS (/ 50) Disodium edetate TS
 . 1 $C_{10}H_{14}N_2Na_2O_8$ 50
 R :VS (/ 0.1) Disodium edetate
 . 1000 $C_{10}H_{14}N_2Na_2O_8$ 33.42
 .Method of standardization

.179 1 VS (/ 0.05)
R] Disodium hydrogen phosphate R
 .(192 1963 SRIP) Na₂HPO₄·12H₂O :**[Sodium Phosphate**
:TS (/ 40) Disodium hydrogen phosphate
 . 1 Na₂HPO₄ 40 R
 .(83 1963 SRIP) C₁₃H₁₂N₄S :**Dithizone R**
:4-Epianhydrotetracycline hydrochloride RS - 4

R :Epinephrine hydrogen tartrate R
 122 2
 .levarterenol
 4 .(88 1)
 .Levarterenol
 5 R 1 R -1
 20
 5 R / 50
TS 8 / 4.4 R
 .()

:4-Epitetracycline hydrochloride RS - 4
:Ergometrine hydrogen maleate RS
:Ergotamine tartrate RS
:Estrone RS
:Ethambutol hydrochloride RS
:Ethanol, neutralized TS
 0.5 TS (/ 750~) :Procedure
 (/ 0.02) TS /
 VS (/ 0.1) VS

		TS		<i>.Note</i>
		] TS (/ 750~) Ethanol, aldehyde-free		
			(84 1963 SRIP) :	[R (95)
TS (/ 750~)	842		:TS (/ 675~) Ethanol	
			. 1000	
TS (/ 750~)	735		:TS (/ 600~) Ethanol	
			. 1000	
			:Ethinylestradiol RS	
			:Ethosuximide RS	
			.C ₂ H ₈ N ₂ :Ethylenediamine R	
				<i>.Description</i>
.R		TS (/ 750~)		<i>.Miscibility</i>
			.° 116	<i>.Boiling temperature</i>
			. / 0.898 = p ₂₀	<i>.Mass density</i>
				<i>.Storage</i>
			(87 1963 SRIP) C ₂ H ₅ I :	Ethyl iodide R
			.C ₄ H ₈ O :	Ethylmethylketone R
				<i>.Description</i>
.R	R	TS (/ 750~)		<i>.Miscibility</i>
			.° 80 – 79	<i>.Boiling range</i>
			. / 0.805 = p ₂₀	<i>.Mass density</i>
				:Ferric ammonium sulfate TS1
6	50	R	0.2	<i>.Procedure</i>
	100		TS (/ 1000~)	
				Ferric ammonium sulfate TS2
		R	8.3	<i>.Procedure</i>

. 1000 VS (/ 0.25)
:Firebrick, pink, R
 . 250 – 180
:Fluphenazine decanoate RS
:Fluphenazine enantate RS
:Fluphenazine hydrochloride RS
:Folic acid RS
 .(91 1963 SRIP) :[R] **Formalehyde TS**
:Formaldehyde /sulfuric acid TS /
 0.2 TS (/ 1760~) 10 *:Procedure*
.TS
 . 1 *:Shelf-life*
 .(92 1963 SRIP) CH₃NO **:Formamide R**
 .d~1.22 CH₂O₂ **:Formic acid, anhydrous, R**
 . CH₂O₂ %98 0
.Description
.TS (/ 750~) *.Miscibility*
 " 15 1 *:Chlorides*
 .(124 1) "Limit test for chlorides
 . / 0.50 R
 " 15 0.5 *:Sulfates*
 R .(125 1) "Limit test for sulfates
 . / 1.5
.Residue on evaporation
 . / 0.5 ° 105
 1 10 *:Assay*

			50	
	1	TS	/	VS (/ 1)
		.CH ₂ O ₂	46.03	VS (/ 1)
rosaniline		[R	]	:Fuchsin, basic R
Pararosaniline		(H ₂ NC ₆ H ₄) ₂ C:	C ₆ H ₃ (CH ₃) :	NH ₂ ⁺ Cl ⁻ hydrochloride
			(H ₂ NC ₆ H ₄) ₂ C:	C ₆ H ₄ : NH ₂ ⁺ Cl ⁻ hydrochloride
				.Description
	.R	TS (/	750~)	.Solubility
0.10	° 105			.Loss on drying
				. /
	TS (/	1760~)	0.5	1 .Sulfated ash
				. / 3.0
				:Fuchsin TS
	60	TS (/	1760~)	40 .Procedure
		200	.R	100
				:Furosemide RS
				:Griseofulvin RS
				:Haloperidol RS
			.C ₆ H ₁₄	n-Hexane :Hexane R
				.Description
	.° 69.5	67.5	° 1	.Boiling range
			. /	0.659 – 0.658 = p ₂₀ .Mass density
			.1.375 – 1.374 = n _D ²⁰	.Refractive index
.N ₂ H ₄ ,H ₂ O	%98.0		.N ₂ H ₄ ,H ₂ O	:Hydrazine hydrate R
				.Description

					<i>.Miscibility</i>
5.0					<i>.Residue on evaporation</i>
					<i>. /</i>
420~)		20	200	1	<i>.Assay</i>
	TS (/ 100)		5	10	TS (/
				VS (/ 0.05)	
VS (/ 0.05)		1			TS
				<i>.N₂H₄,H₂O</i>	2.503
					:FeTS (/ 250~) Hydrochloric acid
40		5			TS (/ 250~)
R		FeTS (/ 180)			2
		50			FeTS (/ 100~)
					:Hydrochloric acid, brominated, AsTS
1	AsTS (/ 250~)		100		<i>.Procedure</i>
					<i>.AsTS</i>
					:VS (/ 5) Hydrochloric acid
		1000	HCl	182.35	TS (/ 250~)
					<i>.Method of standardization</i>
.200	1	VS (/ 1)			
					:VS (/ 0.2) Hydrochloric acid
		1000	HCl	7.293	TS (/ 250~)
					<i>.Method of standardization</i>
.200	1	VS (/ 1)			
					:VS (/ 0.02) Hydrochloride acid
		1000	HCl	0.7293	TS (/ 250~)

.Method of standardization

.200 1 VS (/ 1)

:VS (/ 0.001) Hydrochloric acid

. 1000 HCl 36.47 TS (/ 250~)

.Method of standardization

.200 1 VS (/ 1)

:Hydrochlorothiazide RS

.C₂₁H₃₀O₅ :Hydrocortisone R

.167 2

:Hydrocortisone RS

:Hydrocortisone acetate RS

: [R (30)

] TS (/ 330~) Hydrogen peroxide

. (97 1963 SRIP)

C₂H₅O₂ %20

:Hydroxyethylcellulose R

.Description

TS (/ 750~)

.Solubility

200

2 *.Colour of solution*

30

R

)

5

(

25

1.0

.Loss on drying

° 110

() . / 0.10

10

.Acidity or alkalinity

0.5 TS / VS (/ 0.01)

Determination of " :Assay

0.20 R 0.10 – 0.05 R 0.5 (145 1) "methoxyl

TS (/ 970~) 0.5 R

10 60 R

0.035

"Determination of methoxyl "

1.018 VS (/ 0.1) 1

.C₂H₅O₂

:Hydroxyethylcellulose TS

2.0 100 50 :Proceduer

20 15 1 15 :R

.Note

1963 SRIP) NH₂OH,HCl :Hydroxylamine hydrochloride R

.(99

(-)-3-(4-Hydroxy-3-methoxyphenyl)-2- RS -2-(-3- -4)-3-(-)

:methylalanine RS

:Ibuprofen RS

.C₃H₄N₂ %99.0

.C₃H₄N₂

:Imidazole R

.Description

.TS (/ 750~)

.Solubility

.° 93 – 89 .Melting range

. / 0.5

.Sulfated ash

VS (/ 0.05)

50 0.3 :Assay

VS (/ 0.05)

1 . TS /

C₃H₄N₂ 6.808

:Imidazole, recrystallized, R

R 100 R 25 .Procedure
54 whatman .
50 .541
R
0.6)
.R (5
.Storage

:Imidazole/mercuric chloride TS /

10 60 R 8.25 .Procedure
10 .VS (/ 5)
.TS (/ 2.7)
(4) VS (/ 5) 0.05 ± 6.80
. 100

:Indometacin RS

:Iodine /ethanol TS /

TS (/ 750~) R 10 .Procedure :
. 1000

:Isoniazid RS

:Kieselguhr R1 ()

40 10 .G - .Description
.hemihydrat 150 1

:Kieselguhr R2

40 10 - .Description
(/ 15) 150 1

200	170	–	:Kieselguhr R3
			<i>.Description</i>
150	– 70	–	:Kieselguhr R4
			<i>.Description</i>
		–	:Kieselguhr R5
			<i>.Description</i>
	40	10	
.C₈H₁₁NO₃,C₄H₆O₆,H₂O :Levarterenol hydrogen tartrate R			
			C ₈ H ₁₁ NO ₃ ,C ₄ H ₆ O ₆ %99
			<i>.Description</i>
.R	TS (/ 750~)		<i>.Solubility</i>
. [α] _D ^{20°C} = -10 to -13°	/ 50		<i>.Specific optical rotation</i>
Determination of water by		"	<i>.Water</i>
0.5	(145	1) A	"the Karl Fischer Methode
			. / 58 / 45
R			0.4 <i>.Assay</i>
Non-aqueous	"		VS (/ 0.1)
VS (/ 0.1)	1	.(142	1) A "titrateion
			.C ₈ H ₁₁ NO ₃ , C ₄ H ₆ O ₆ 31.93
			:Levodopa RS
			:Lidocaine RS
			:Lindane RS
			.Li :Lithium R

			()		<i>.Description</i>
					<i>.Solubility</i>
	.R				R
			:VS (/ 0.1) Lithium methoxide		
		R	150	R	0.694 <i>.Procedure</i>
					. 1000 R
	/ 0.1				<i>.Method of standardization</i>
		25	R		0.15 :
					R
Non-aqueous			"		TS /
	1		12.21	.(142	1) B "titration
					.VS (/ 0.1)
			.(108	1963 SRIP)	:Litmus R
					:Litmus TS
1	TS (/ 710~)	40	R	10	<i>.Procedure</i>
	.TS (/ 710~)	30			
					100
			.(109	1963 SRIP)	:Litmus paper R
			.20000		:R (20) Macroglol
	R		:TS (/ 50) Magnesium sulfate		
				. 1	MgSO ₄ 50
			.(113	1963 SRIP)	HgCl ₂ :Mercuric chloride R
6.5	R				:TS (/ 65) Mercuric chloride TS

2.7 R HgCl_2 (/ 0.25) 1
:TS (/ 2.7) Mercuric chloride
 HgCl_2 1
 (115 1963 SRIP) Hg **:Mercury R**
:Methyldopa RS
 (119 1963 SRIP) $\text{C}_6\text{H}_{12}\text{O}$ **:Methylisobutylketone R**
 $\text{C}_8\text{H}_{10}\text{N}_2\text{O}_3\text{S}$ **:N-Methyl-N-nitrosotoluene-4-sulfonamide R** -4- -N- -N
.Description
 R TS (/ 750~) *.Solubility*
 $^{\circ} 60$ *.Melting temperature*
 R R **:Methyl orange/ acetone TS /**
 $\text{C}_5\text{H}_{12}\text{N}_2$ **:N-methylpiperazine R** -N
 / 0.902 = p_{20} *.Mass density*
 1.466 = n_D^{20} *.Refractive index*
:Methyl silicon gum R
:Methyltestosterone RS
:TS (/ 1) Methylthioninium chloride
 1 $\text{C}_{16}\text{H}_{18}\text{ClN}_3\text{S}$ 1 R
 [3H-2,1-benzoxathiol-3- Tetrasodium **:Methylthymol blue R**
 ylidenebis [(6-hydroxy-5-isopropyl-2-methyl-*m*-phenylene)methylenenitrilo]] tetraacetic acid S,S-
 dioxide; $\text{C}_{37}\text{H}_{44}\text{N}_2\text{Na}_4\text{O}_{13}\text{S}$
.Description
 TS (/ 750~) *.Solubility*
:Methylthymol blue mixture R
 R 100 R *.Procedure*
:Metronidazole RS

						.C₁₀H₈O :1-Naphthol R	- 1
						<i>.Description</i>	
						<i>.Solubility</i>	
						<i>.Melting Range</i>	
						<i>.Sulfate ash</i>	
						:1-Naphthol TS1	- 1
						<i>.Procedure</i>	
							TS
						<i>.Note</i>	
						.C₂₇H₂₀O₃ :1-Naphtholbenzein R	-1
						<i>.Description</i>	
						<i>.Solubility</i>	
						<i>.R</i>	
						:1-Naphtholbenzein/acetic acid TS	-1
						<i>.Procedure</i>	
							TS
						:N-(1-Naphthyl)ethylenediamine hydrochloride R	
						<i>(- 1) - N</i>	
						<i>(124 1963 SRIP) C₁₂H₁₄N₂,2HCl</i>	
						N-(1-Naphthyl)ethylenediamine hydrochloride	
						<i>(- 1) - N</i>	
						:TS (/ 5)	
						<i>C₁₂H₁₄N₂,2HCl</i>	
						N-(1-Naphthyl)ethylenediamine hydrochloride	
						<i>(- 1) - N</i>	
						:TS (/ 1)	
						<i>C₁₂H₁₄N₂,2HCl</i>	

***N*-(1-Naphthyl) ethylenediamine** / (-1)-*N*
:hydrochloride/ethanol TS
R (-1) -*N* 5 .*Procedure*
. 1000 TS (/ 750~)
. .
:Nicotinamid RS
. .
:Nicotinic acid RS
. *d*~1.5 (126 1963 SRIP) HNO₃ **:Nitric acid, fuming, R**
.(127 1963 SRIP) C₆H₆N₂O₂ **:[R -] 4-Nitroaniline R - 4**
:4-Nitroaniline TS1 -4
R -4 5 .*Procedure*
. 1000 VS (/ 1)
:4-Nitroaniline TS2 - 4
VS (/ 1) 60 R -4 0.4 .*Procedure*
TS (/ 100) ° 15
. R /
. TS2 -4 .*Note*
:[*p*-nitrobenzoyl chloride R] 4-Nitrobenzoyl chloride R -4
.(128 1963 SRIP) :C₇H₄ClNO₃
R **:Nitrogen, oxygen-free, R**
. TS
1-Nitroso-2-naphthol-3,6-disodium -6 3- -2- -1
SRIP) C₁₀H₅NNa₂O₈S₂ **:[R -6 3- -2- -1] :disulfonate R**
.(129 1963
1-Nitroso-2-naphthol-3, 6-disodium -6 3- -2- -2
R -6 3- -2- -1 **:TS (/ 2) disulfonat**

. 1 C₁₀H₅NNa₂O₈S₂ 2

:Norethisterone RS

:Norethisterone acetate RS

:Opalescence standard TS1

TS 15 .Procedure

. 1000

. 24 .Shelf-life

:Opalescence standard TS2

TS1 5.0 .Procedure

. 100

. TS2 .Note

:Opalescence stock standard TS

100 R 1.0 .Procedure

R 2.5 25.0 . 6 - 4

. 24 25.0

.Storage

.Shelf-life

.OsO₄ **:Osmium tetroxide R**

.Caution

.Description

.R TS (/ 750~) .Solubility

:Oxytetracycline hydrochloride RS

:Papaverine hydrochloride RS

:VS (/ 0.05) Perchloric acid

° 25 R1 900 .Procedure

1000 R 15 TS (/ 1170~) 4.2
R1

24

.Water and method of standardization

1 VS (/ 0.1)

.213

:Petroleum, light, R1

.Description

.° 60 – 40 .Boiling range

. / 0.650 – 0.630 = p_{20} .Mass density

.C₈H₁₀O₂ :2-Phenoxyethanol R - 2

.Description

.R TS (/ 750~)

.Miscibility

. / 1.1 = p_{20} .Mass density

.1.537 = n_D^{20} .Refractive index

.° 12.0 .Freezing point

:Phenoxymethylpenicillin RS

:Phenoxymethylpenicillin calcium RS

:Phenoxymethylpenicillin potassium RS

.C₈H₁₀O :2-Phenylethanol R - 2

:2-Phenylethanol TS -2

R R - 2 1 .Procedure

. 50

.(140 1963 SRIP) C₆H₈N₂ :Phenylhydrazine R

1963 SRIP) C₆H₈N₂.HCl :Phenylhydrazine hydrochloride R

.(140

. 1 KCN
 R :TS (/ 100) Potassium dichromate
 .(/ 0.4) 1 K₂Cr₂O₇ 98
 :TS (/ 50) Potassium ferricyanide
 R 5 :Procedure
 . 100
 . TS (/ 50) :Note
 .(156 1963 SRIP) K₄Fe(CN)₆·3H₂O :Potassium ferrocyanide R
 R :TS (/ 45) Potassium ferrocyanide
 . 1 K₄Fe(CN)₆ 50
 :Potassium hydroxide /ethanol TS2 /
 (/ 710~) R 112 :Procedure
 .(/ 2) 1000 TS
 :Potassium hydroxide/ methanol TS /
 R R 30 :Procedure
 . 1000
 R :VS (/ 0.01) Potassium hydroxide
 . 1000 KOH 0.5610
 :Method of standardization
 .219 1 VS (/ 1)
 :VS (/ 1) Potassium hydroxide/ethanol /
 . 1000 KOH 56.10 TS (/ 710~) R
 :Method of standardization
 .219 1 VS (/ 0.5) /
 .(160 1963 SRIP) KIO₃ :Potassium iodate R
 R :VS (/ 0.05) Potassium iodate

				:Potassium iodobismuthate TS2	
50		500	R	100	<i>.Procedure</i>
					<i>.TS1</i>
					:Potassium iodoplatinate TS
45		50	R	2.5	<i>.Procedure</i>
				100	/ 0.1
					<i>.Storage</i>
					<i>.(164</i>
		1963	SRIP)	KIO ₄	:Potassium periodate R
					:Potassium periodate TS
20		200	R	2.8	<i>.Procedure</i>
					TS (/ 1760~)
					<i>. 1000</i>
R					:VS (/ 0.002) Potassium permanganate
				1000	KMnO ₄ 0.3161
					<i>.Method of standardization</i>
		.221	1		VS (/ 0.02)
R					] Potassium sodium tartrate R
					<i>.(193</i>
		1963	SRIP)	C ₄ H ₄ KNaO ₆ ·4H ₂ O	:[Sodium potassium tartrate
KCNS	%99.0				.KCNS :Potassium thiocyanate R
					<i>.Description</i>
					<i>.R</i>
				15	0.5 <i>.Solubility</i>
					/ 0.1 <i>.Alkalinity</i>
					<i>.TS /</i>
				5	1.0 <i>.Ammonia</i>
TS (/ 80~)					
		30	R	1	1.0 <i>.Chlorides</i>

1	/	1		TS (/ 60~)	
		30		R	
TS (/ 1000~)		5	2	TS (/ 60~)	
				TS (/ 40)	1
"				VS (/ 0.01)	1
			20	0.50	:Sulfates
. / 1.0	(125	1	)	"Limit test for sulfates	
2	50	1.0		:Other sulfur compounds	
0.5	VS (/ 0.05)			TS (/ 70~)	
				(/ 0.05)	
20	° 105			:Loss on drying	
					/
	5	50		0.4	:Assay
	5	VS (/ 0.1)		50	TS (/ 1000~)
(/ 0.1)				TS (/ 45)	
	.KCNS	9.718	VS (/ 0.1)	1	.VS
			R		:Note
					:Prednisolon RS
					:Primaquin diphosphate RS
					:Procaine hydrochloride RS
					:Progesterone RS
.C ₃ H ₈ O	propan-1-ol	- 1 -	n-Propanol	- n	:1-Propanol R - 1
					:Description
			.TS (/ 750~)		:Miscibility
	° 98 95		%95		:Boiling range
			. / 0.803	= p ₂₀	:Mass density
					:Residue on evaporation

TS (/ 100~)					<i>.Identification</i>
0.3	5	5	.	.	
1	TS1	0.2			.TS (/ 70~)
					TS (/ 35~)
					:Reserpine RS
					:Riboflavin RS
2					.C₇H₆O₃ :Salicylic acid R
					.31
	.H ₂ SeO ₃	%93			.H₂SeO₃ :Selenious acid R
					<i>.Description</i>
					<i>.Solubility</i>
					<i>.Assay</i>
50				0.1	
420~)		5	TS (/ 300)	10	.
	50		10		TS (/
		VS (/ 0.1)		TS	3
0.05)			VS (/ 0.05)		
1			VS (/ 0.1)		VS (/
		.H ₂ SeO ₃	3.225	VS (/ 0.1)	
		:Selenious acid/ sulfuric acid TS			/
.TS (/ 1760~)		2	R	10	<i>.Procedure</i>
				.G	:Silica gel R1
					<i>.Description</i>
	(	40 -10	)		<i>.Composition</i>
				.(/ 130)	
			.(254 UV) HF		:Silica gel R2
					<i>.Description</i>

(40 -10) :Composition
 .(/ 15) 254
 .H :Silica gel R3
 . :Description
 . 40-10 :Particle size
 .(254 UV) GF :Silica gel R4
 . :Description
 (40 -10) :Composition
 15) 254 (/ 130)
 .(/
 .60 :Silica gel R5
 . :Description
 . 6 :Average pore size
 .Ag₂O :Silver oxide R
 . :Description
 TS (/ 130~) :Solubility
 .TS (/ 260~)
 5 5 :Substances insoluble in nitric acid
 65 10 TS (/ 1000~)
 .()
 TS (/ 250~) 1
 . / 0.2 ° 105
 :Substances not precipitated by the hydrochloric acid
 250
 TS (/ 250~)
 . 300 . (5)
 200

50 R $C_2H_3NaO_2$
 :TS (/ 50) Sodium acetate
 $C_2H_3NaO_2$
 :VS (/ 0.1) Sodium arsenite
 20 R 5 :Procedure
 70~) 400 20 TS (/ 80~)
 2 .R TS (/
 500 R
 :Method of standardization
 .VS (/ 0.05)
 R 1 :Storage
 :VS (/ 0.05) Sodium arsenite
 20 R 5 :Procedure
 70~) 400 20 TS (/ 80~)
 4 .R TS (/
 1000 R
 / 0.05 :Method of standardization
 R 5 50 25 :
 VS (/ 0.05)
 R 1 :Storage
 R :Sodium carbonate, anhydrous, FeR
 8 25 4.0 :
 1) "Limit test for iron " FeTS (/ 250~)
 . / 10 FeTS 2 (129
 200 R :TS (/ 200) Sodium carbonate
 Na_2CO_3

:Sodium hydroxide/ methanol TS /
R R 40 *.Procedure*
. 1000
R **:VS (/ 0.5) Sodium hydroxide**
. 1000 NaOH 20.00
.Method of standardization
.224 1 VS (/ 1)
R **:VS (/ 0.02) Sodium hydroxide**
. 1000 NaOH 0.8001
.Method of standardization
.224 1 VS (/ 1)
R **:VS (/ 0.001) Sodium hydroxide**
. 1000 NaOH 40.01
.Method of standardization
.224 1 VS (/ 1)
:TS (/ 40~)
.Description
50 3 *.Assay*
TS (/ 300~) 10 R 2
TS 3 VS (/ 0.1)
.NaOCl 3.723 VS (/ 0.1) 1
(/ 40~) *.Storage*
.° 25
:Sodium hypochlorite TS1
) 100 TS (/ 40~) 10 *.Procedure*
.(%0.50
.(187 1963 SRIP) Na₂O₅S₂ **:Sodium metabisulfate R**

	.NaIO ₄		:Sodium metaperiodate R				
					.NaIO ₄	%98.0	
					<i>:Description</i>		
					<i>:Solubility</i>		
3 R		3		100	0.5	<i>:Assay</i>	
1	.VS (/ 0.05)					R	
		.NaIO ₄	10.69	VS (/ 0.05)			
			:VS (/ 0.1) Sodium methoxide				
2.5	R		150			<i>:Procedure</i>	
R						R	
						1000	
/	0.1					<i>:Method of standardization</i>	
			R		0.10	:	
12.21	(142	1	) B	"Non-aqueous titration		"	
			.VS (/ 0.1)		1	C ₇ H ₆ O ₆	
			VS (/ 0.1)			<i>:Note</i>	
			:Sodium molybdotungstophosphate TS				
50	350					<i>:Procedure</i>	
(/ 1440~)		25	R		12	R	
			500				TS
	.C ₁₀ H ₅ NaO ₅ S		:Sodium 1,2-naphtoquinone-4-sulfonate R		- 4 -	- 2 1	
							<i>:Description</i>
			.TS (/ 750~)				<i>:Solubility</i>
(/ 5)			:Sodium 1,2-naphtoquinone-4-sulfonate		- 4 -	- 2 1	
1	C ₁₀ H ₅ NaO ₅ S	5	R	- 4 -	- 2 1		:TS
100	R		:TS (/ 100) Sodium nitrite				
					1	NaNO ₂	

	(197	1963	SRIP)	$\text{Na}_2\text{O}_4\text{W}, 2\text{H}_2\text{O}$	:Sodium tungstate R		
				$\text{C}_6\text{H}_{14}\text{O}_6$	%97.0	$\text{C}_6\text{H}_{14}\text{O}_6$	:Sorbitol R
							<i>.Description</i>
				TS (/ 750~)			<i>.Solubility</i>
						R	R
						0.2	<i>.Assay</i>
	TS			50.0		10.0	100
				R	2.5		15
3	VS (/ 0.1)						5
1							TS
				$\text{C}_6\text{H}_{14}\text{O}_6$	1.822	VS (/ 0.1)	
							<i>.Storage</i>
							:Starch iodide TS
R	2			5	R	0.75	<i>.Procedure</i>
							100
				35	R	5	
							<i>.Storage</i>
	(200	1963	SRIP)	$\text{C}_{42}\text{H}_{44}\text{N}_4\text{O}_4, \text{H}_2\text{SO}_4, 5\text{H}_2\text{O}$	:Strychnine sulfate R		
							:Sulfamethoxazole RS
							:Sulfamethoxypyridazine RS
						$\text{H}_3\text{NO}_3\text{S}$	:Sulfamic acid R
							<i>.Description</i>
				(/ 750)			<i>.Solubility</i>
50	R				:TS (/ 50) Sulfamic acid		1 $\text{H}_3\text{NO}_3\text{S}$
							<i>.Note</i>
				TS (/ 50)			

:Sulfanilamide RS

(201 1963 SRIP) $C_6H_7NO_3S$ **:Sulfanilic acid R**

:TS (/ 700~) Sulfuric acid

TS (/ 1760~) *.Procedure*

.d~1.40

TS (/ 1760~) **:TS (/ 635~) Sulfuric acid**

.d~1.36 1 H_2SO_4 635

:TS (/ 570~) Sulfuric acid

7 (/ 1760~) 3 *.Procedure*

.d~1.36

TS (/ 50~) Sulfuric acid

50 TS (/ 100~) 50 *.Procedure*

:Sulfuric acid/ ethanol TS /

90 TS (/ 750~) 10 *.Procedure*

.° 5- TS (/ 1760~)

TS (/ 1760~) **:VS (/ 0.25) Sulfuric acid**

. 1000 H_2SO_4 24.52

.Method of standardization

.231 1 VS (/ 0.5)

TS (/ 1760~) **:VS (/ 0.1) Sulfuric acid**

. 1000 H_2SO_4 9.808

.Method of standardization

.231 1 VS (/ 0.5)

(204 1963 SRIP) **.[sulfurous acid R] Sulfurous acid TS**

(205 1963 SRIP) $C_4H_6O_6$:Tartaric acid R
 10 R :TS (/ 10) Tartaric acid
 . 1 $C_4H_6O_6$
 $C_4H_6O_6$ 5 R :TS (/ 5) Tartaric acid
 . 1
 :Testosterone propionate RS
 :VS (/ 0.1) Tetrabutylammonium hydroxide
 90 R 40 .Procedure
 . 1 R 20
 R 2 . 30
 . 50 R
 .R 1000
 . 5 R
 R 10 .Method of standardization
 TS / 3
 R 0.06
 .
 . 12.21 . / 0.1
 .VS (/ 0.1) 1
 VS (/ 0.1) .Note
 .
 . $C_{16}H_{36}IN$:Tetrabutyl ammonium iodide R
 . $C_{16}H_{36}IN$ %98.0
 .Description

.TS (/ 750~) .Solubility
 . / 0.2 .Sulfated ash
 50 . 30 1.2 .Assay
 .TS (/ 130~) 5 VS (/ 0.1)
 TS (/ 45) VS (/ 0.1)
 .C₁₆H₃₆IN 36.94 VS (/ 0.1) 1 .
 1,1,2,2-tetrachloroethane -2 2 1 1 :Tetrachloroethanol R
 .C₂H₂Cl₄
 .Description
 .R TS (/ 750~) 400 .Miscibility
 .° 147 142 %95 .Boiling range
 .1.495 – 1.493 = n_D²⁰ .Refractive index
 . / 1.595 – 1.590 = p₂₀ .Mass density
 :Tetracycline hydrochloride RS
 .C₁₄H₃₀ :n-Tetradecane R - n
 .Description
 .TS (/ 750~) .Miscibility
 . / 0.76 = p₂₀ .Mass density
 .1.429 – 1.428 = n_D²⁰ .Refractive index
 :TS (/ 100~) Tetramethylammonium hydroxide
 . (CH₃)₄NOH / 100
 .Description
 1 ° 105 5 .Residue of evaporation
 .(/ 0.2) 1.0
 0.3 .Ammonia and other amines
 . 5 (CH₃)₄NOH
 (4) VS (/ 1)

0.8317 . 2 ° 105
 %0.2 ± (CH₃)₄NOH
 15 .Assay
 TS / (CH₃)₄NOH 0.2
 9.115 VS (/ 0.1) 1 .VS (/ 0.1)
 .(CH₃)₄NOH
 .Storage
:Tetramethylammonium hydroxide/ ethanol TS /
 TS (/ 100~) 10 .Procedure
 100 TS (/ 750~)
:4,4'-thiodianiline RS - 4' 4
 - 4' 4 .Note
 R
 .(207 1963 SRIP) CH₄N₂S **:Thiourea R**
 . 1 CH₄N₂S 0.1 **:TS (/ 0.1) Thiourea**
 .C₁₀H₁₄O **:Thymol R**
 .Description
 1 TS (/ 750~) 1 1000 .Solubility
 .R 1.5 R
 ° 51 48 .Melting range
 2 .Residue on volatilization
 . / 0.5 ° 105
 .Storage
:Thymol TS1
 R R 0.225 .Procedure

. 100

:Thymol TS2

.R 100 TS1 10 *.Procedure*

:Thymol TS3

.R 150 TS1 10 *.Procedure*

.(207 1963 SRIP) C₂₇H₃₀O₅S **:Thymol blue R /**

:Thymol blue/ dimethylformamide TS /

R R 0.3 *.Procedure*

. 100

:Thymol blue/ ethanol TS /

TS (/ 750~) R 0.1 *.Procedure*

. 100

:Thymol blue/ methanol TS /

R R 0.3 *.Procedure*

. 100

:Thymol phtalein /dimethylformamide TS /

R R 0.1 *.Procedure*

. 100

TiO₂ **:Titanium dioxide R**

.Procedure

1760~) *.Solubility*

:Titanium dioxide/ sulfuric acid TS /

100 R 0.1 *.Procedure*

.TS (/ 1760~)

					R		<i>.Note</i>
						:TS (/ 15) Tosylchloramide sodium	
					1	C ₇ H ₇ CINNaO ₂ S	16 R
						:Trichloroacetic acid R	
						:Trichloroethylene R	
						<i>.Description</i>	
						<i>.Miscibility</i>	
						:Trichlorotrifluoroethane R	
						<i>.C₂Cl₃F₃ .1,1,2-Trichloro-1,2,2-trifluoroethane</i>	
						<i>.Description</i>	
						<i>.Miscibility</i>	
						:Trichlorotrifluoroethane TS	
						<i>.Procedure</i>	
						<i>() R</i>	
						:Triketohydrindene hydrate R	
						<i>(210 1963 SRIP)</i>	
						:Triketohydrindene/cadmium TS /	
						<i>.Procedure</i>	
						<i>R</i>	
						<i>R</i>	
						<i>10 R</i>	
						<i>.Note</i>	
						:Trimethadione RS	
						:Trimethoprim RS	
						:Trimethylpyridine R	
						<i>.Collidine</i>	<i>Trimethylpyridine</i>

			R	isotonic
			(215	1963 SRIP) C ₈ H ₁₀ :Xylene R
			(217	1963 SRIP) ZnCl ₂ :Zinc chloride R
			:TS (Zn / 20) Zinc standard	
(/ 300~)		1	R	4.398 .Procedure
100		1	1000	TS
%105.0	%99			.ZnSO ₄ ,7H ₂ O :Zinc sulfate R
				.ZnSO ₄ ,7H ₂ O
				.Description
				.Solubility
				.Clarity and colour of solution
				.Chlorides
				.Iron
				.pH value
				.Assay
				.Storage
				:Zirconyl nitrate R
				.Description
				.Solubility
				.Assay

	40	.TS (/ 100)	350
200	.	2 ° 50 - 40	TS (/ 1760~)
		TS (/ 50)	
)	"General identification tests	"	A
.	ZrO ₂ 0.4647	1 .	.(119 1
		:Zirconyl nitrate TS	
	60	R	0.1 .Procedure
			. 40 TS (/ 470~)