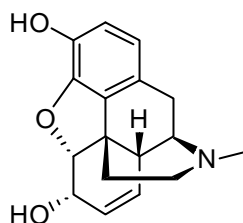


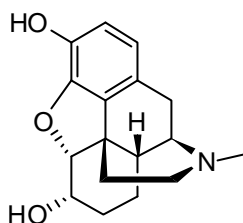
29. 39 アルカロイド（天然のもの及びこれと同一の構造を有する合成のものに限る。）及びその塩、エーテル、エステルその他の誘導体
 (Alkaloids, natural or reproduced by synthesis, and their salts, ethers, esters and other derivatives.)

(A) あへんアルカロイド及びその誘導体並びにこれらの塩
 (Alkaloids of opium and their derivatives; salts thereof)

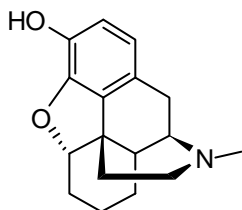
(1) モルヒネ
 (Morphine)



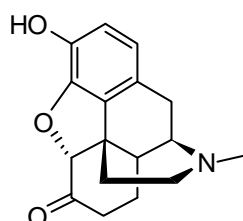
(2) ジヒドロモルヒネ
 (Dihydromorphine)



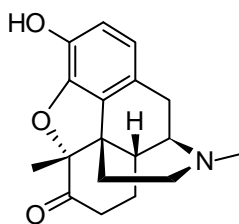
・ デソモルヒネ (INN) (ジヒドロデオキシモルヒネ)
 (Desomorphine (INN) (dihydrodeoxymorphine))



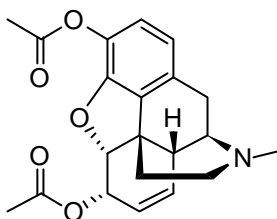
・ ヒドロモルホン (INN) (ジヒドロモルヒノン)
 (Hydromorphone (INN) (dihydromorphinone))



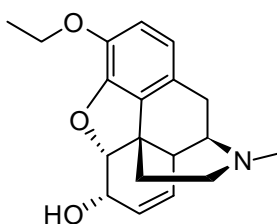
- ・ メトポン (INN) (5-メチルジヒドロモルヒノン)
(Metopon (INN) (5-methyldihydromorphinone))



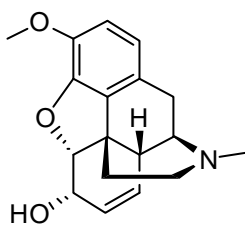
- (3) ジアセチルモルヒネ (ヘロイン)
(Diacetylmorphine (heroin))



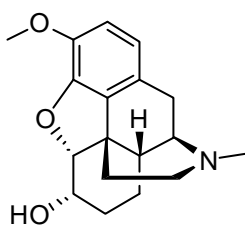
- (4) エチルモルヒネ
(Ethylmorphine)



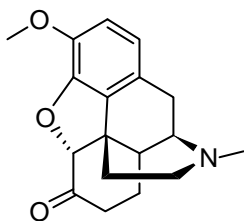
- (5) コデイン (メチルモルヒネ、モルヒネのモノメチルエーテル)
(Codeine (methyldmorphine, monomethyl ether of morphine))



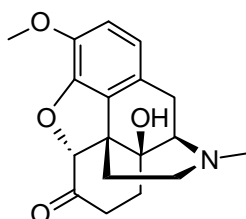
- (6) ジヒドロコデイン (INN)
(Dihydrocodeine (INN))



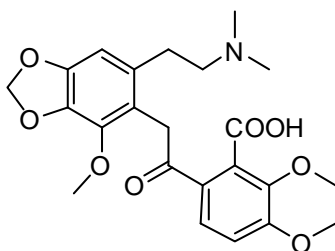
- ・ ヒドロコドン (INN) (ジヒドロコデイノン)
(Hydrocodone INN) (dihydrocodeinone))



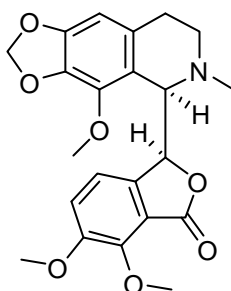
- ・ オキシコドン (INN) (ジヒドロヒドロキシコデイノン)
(Oxycodone INN) (dihydrohydroxycodeinone))



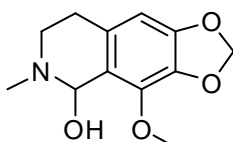
- (7) ナルセイン
(Narceine)



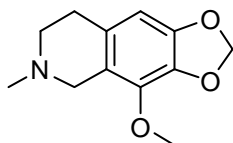
- (8) ノスカピン (INN) (ナルコチン)
(Noscapine INN) (narcotine))



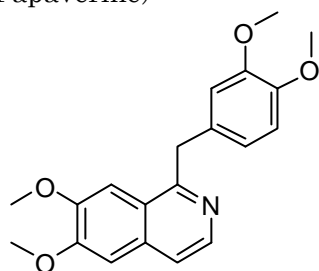
- (9) コタルニン
(Cotarnine)



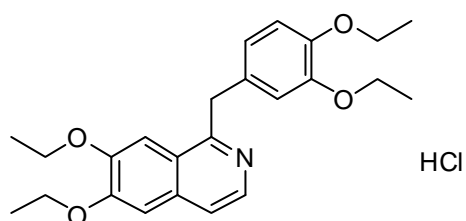
- ・ ヒドロコタルニン
(Hydrocotarnine)



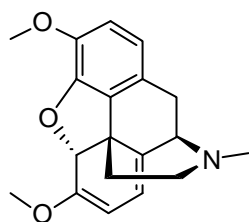
- (10) パパベリン
(Papaverine)



- (11) 塩酸エタベリン (INN) (塩酸 1-(3,4-ジエトキシベンジル)-6,7-ジエトキシイソキノリン)
(Ethaverine hydrochloride (INN) (1-(3,4-diethoxybenzyl)-6,7-diethoxyisoquinoline hydrochloride))

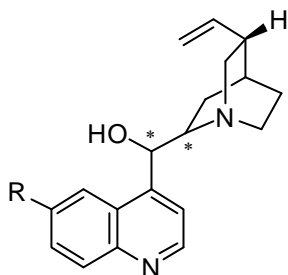


- (12) テバイン
(Thebaine)

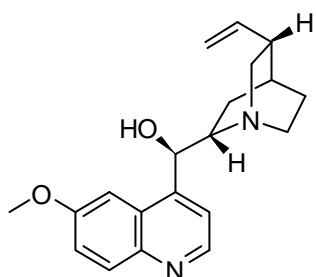


- (13) けしがら濃縮物
(Concentrates of poppy straw)

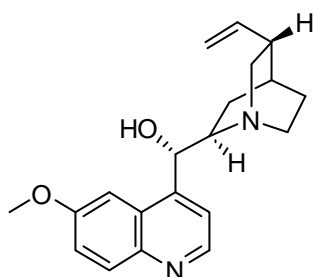
(B) キナアルカロイド及びその誘導体並びにこれらの塩
(Alkaloids of cinchona and their derivatives; salts thereof)



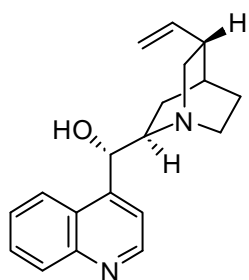
(1) キニーネ : $R = -OCH_3$
(Quinine)



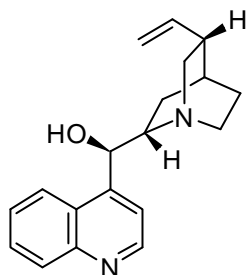
(2) キニジン : キニーネの立体異性体
(Quinidine : isomer of Quinine)



(3) シンコニン : $R = H$
(Cinchonine)

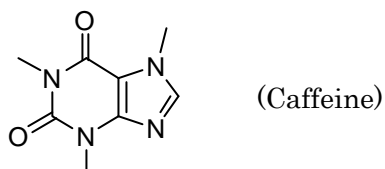


- (4) シンconiジン：シンconiニンの立体異性体
(Cinchonidine : isomer of Cinchonine)



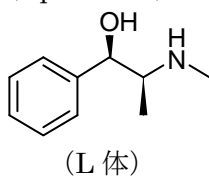
- (5) タンニン酸キニーネ：キニーネの OH 基にタンニン酸の結合したもの
(Quinine tannate : tannic acid bonding with OH radicals of quinine)

- (C) カフェイン及びその塩
(Caffeine and its salts)

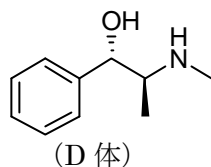


- (D) エフェドラアルカロイド及びその誘導体並びにこれらの塩
(Alkaloids of ephedra and their derivatives; salts thereof)

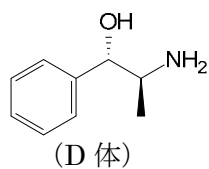
- (1) エフェドリン
(Ephedrine)



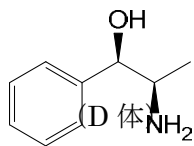
- (2) プソイドエフェドリン (INN)
(Pseudoephedrine (INN))



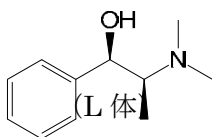
- (3) カチン (INN) (ノルプソイドエフェドリン)
(Cathine (INN) (Norpseudoephedrine))



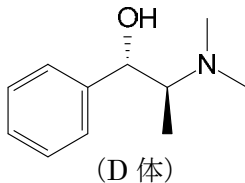
- (4) ノルエフェドリン
(Norephedrine)



- (5) メチルエフェドリン
(Methylephedrine)



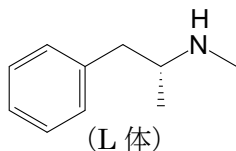
- (6) メチルプソイドエフェドリン
(Methylpseudoephedrine)



- (7) エフェドラアルカロイドの誘導体：

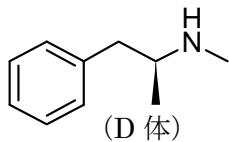
- － レボメタンフェタミン

(Levometamfetamine)



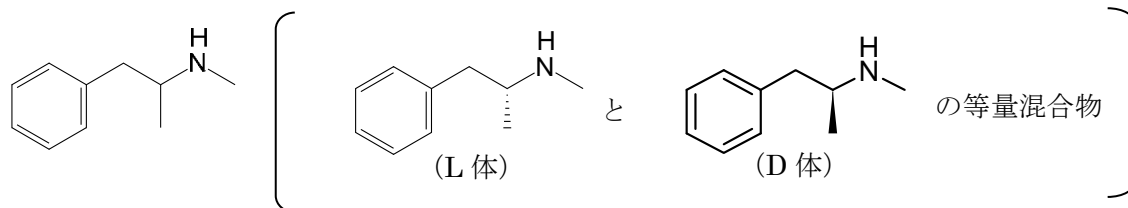
- － メタンフェタミン (INN)

(Metamfetamine (INN))

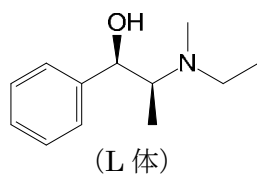


- － メタンフェタミンラセメート

(Metamfetamine racemate)

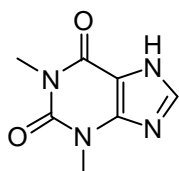


- エタフェドリン (INN)
(Efedrine (INN))

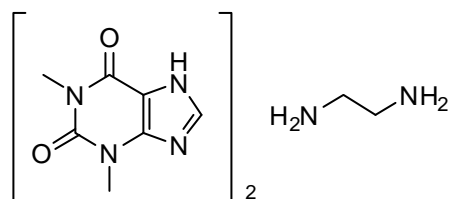


- (E) テオフィリン、アミノフィリン (テオフィリン-エチレンジアミン) 及びこれらの誘導体並びにこれらの塩
(Theophylline and aminophylline (theophylline-ethylenediamine) and their derivatives; salts thereof)

- ・ テオフィリン
(Theophylline)

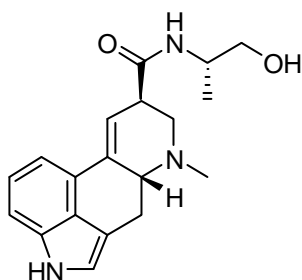


- ・ アミノフィリン (テオフィリン-エチレンジアミン)
(Aminophylline (theophylline-ethylenediamine))



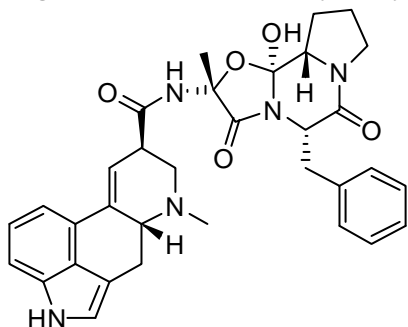
- (F) ライ麦角のアルカロイド及びその誘導体並びにこれらの塩
(Alkaloids of rye ergot and their derivatives; salts thereof)

- (1) エルゴメトリン (INN) (9,10-ジデヒドロ-N-[(S)-2-ヒドロキシ-1-メチルエチル]-6-メチルエルゴリン-8β-カルボキサミド) (エルゴノビン)
(Ergometrine (INN) (9,10-didehydro-N-[(S)-2-hydroxy-1-methylethyl]-6-methylergoline-8β-carboxamide) (ergonovine))



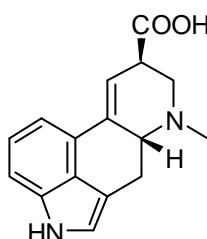
(2) エルゴタミン (INN) (12'-ヒドロキシ-2'-メチル-5' α -(フェニルメチル)エルゴタマン-3',6',18-トリオン)

(Ergotamine (INN) (12'-hydroxy-2'-methyl-5' α -(phenylmethyl)ergotaman-3',6',18-trione))



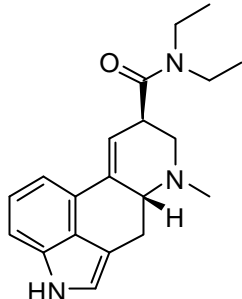
(3) リゼルギン酸 (9,10-ジデヒドロ-6-メチルエルゴリン-8-カルボン酸)

(Lysergic acid (9,10-didehydro-6-methylergoline-8-carboxylic acid))



・ リゼルギド (INN)

(Lysergide (INN))

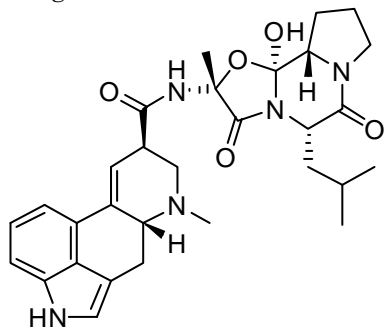


(4) 他の麦角アルカロイド

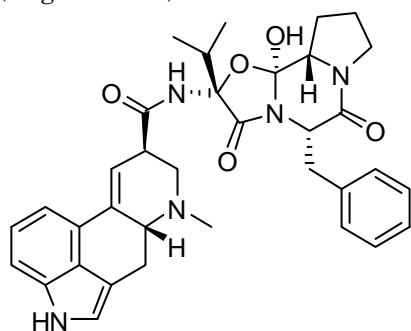
(Other ergot alkaloids)

— エルゴシン

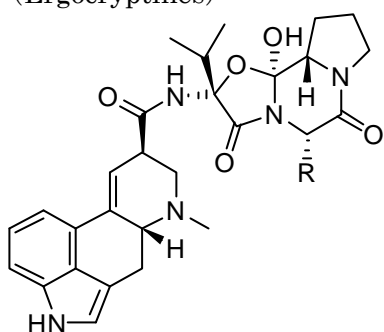
(Ergosine)



- エルゴクリスチン
(Ergocristine)



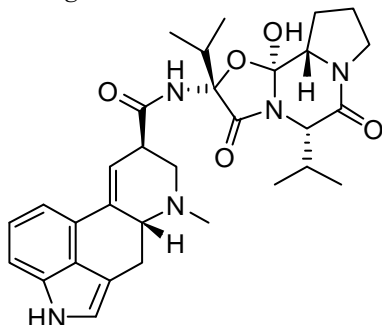
- エリゴクリプチン
(Ergocryptines)



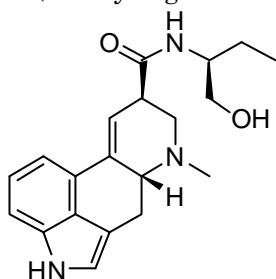
α -Ergocryptine $R=CH_2CH(CH_3)_2$

β -Ergocryptine $R=CH(CH_3)CH_2CH_3$

- エルゴコルニン
(Ergocornine)

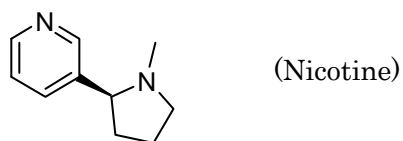


- メチルエルゴメトリン
(Methylergometrine)



(G) ニコチン及びその塩

(Nicotine and its salts)

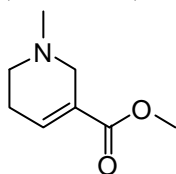


(H) 植物由来のその他のアルカロイド並びにその誘導体及び塩

(Other alkaloids of vegetal origin and their derivatives and salts)

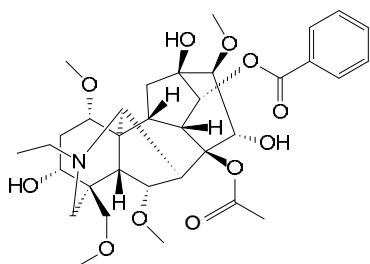
(1) アレコリン

(Arecoline)



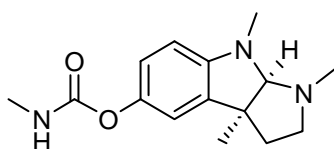
(2) アコニチン

(Aconitine)



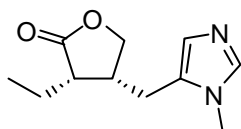
(3) フィゾスチグミン (エセリン)

(Physostigmine (eserine))

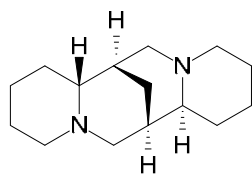


(4) ピロカルピン

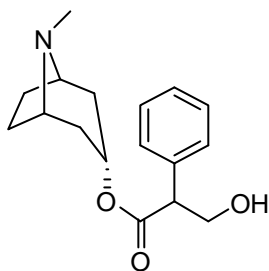
(Pilocarpine)



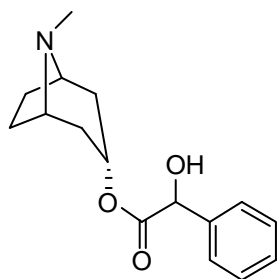
(5) スパルテイン
(Sparteine)



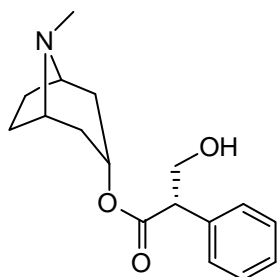
(6) アトロピン
(Atropine)



(7) ホマトロピン
(Homatropine)

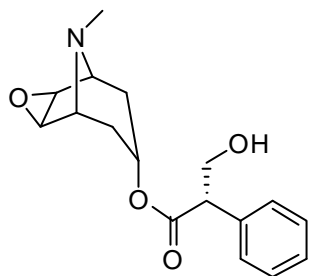


(8) ヒオスシアミン
(Hyoscyamine)

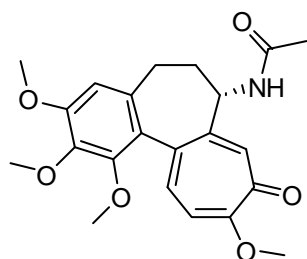


(1-Hyoscyamine)

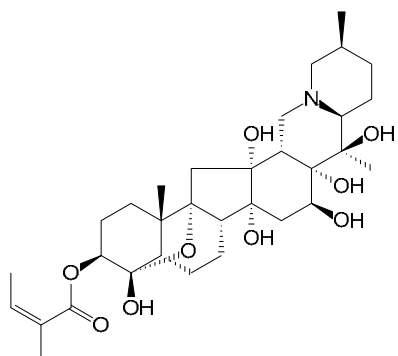
- (9) スコポラミン (ヒオスシン)
(Scopolamine (hyoscine))



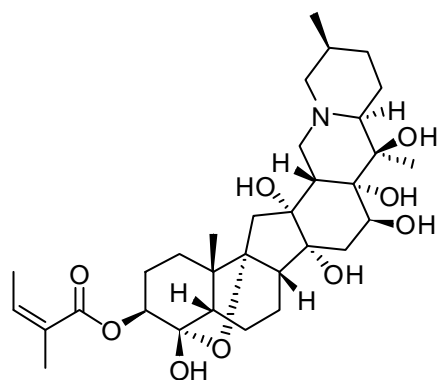
- (10) コルヒチン
(Colchicine)



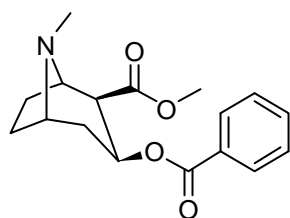
- (11) ベラトリン
(Veratrine)



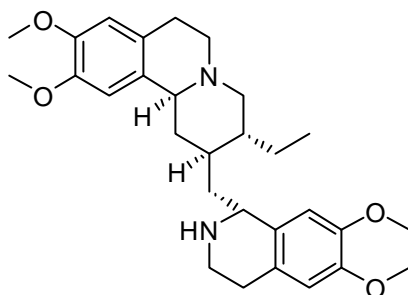
(12) セバジン
(Cevadine)



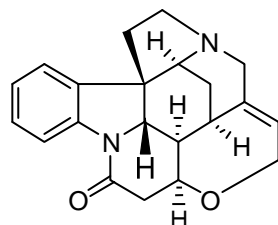
(13) コカイン
(Cocaine)



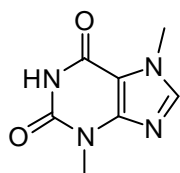
(14) エメチン
(Emetine)



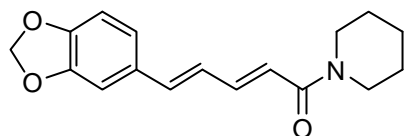
(15) ストリキニーネ
(Strychnine)



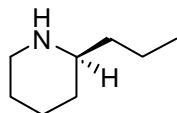
- (16) テオブロミン
(Theobromine)



- (17) ピペリン
(Piperine)

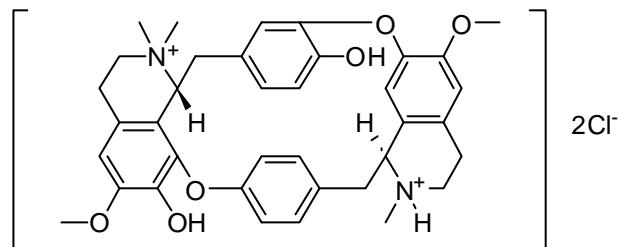


- (18) コニイン
(Coniine)

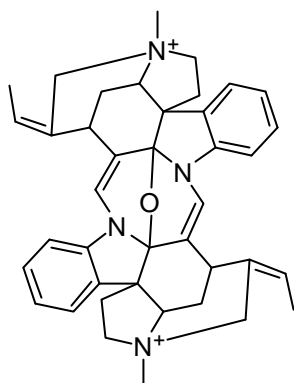


(19) クラリン
(Curarine)

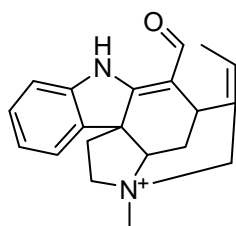
ー 塩化ツボクラリン
(Tubocurarine Chloride)



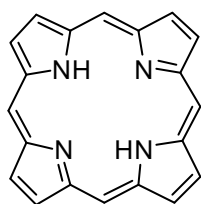
ー C-クラリン I
(C-Curarine I)



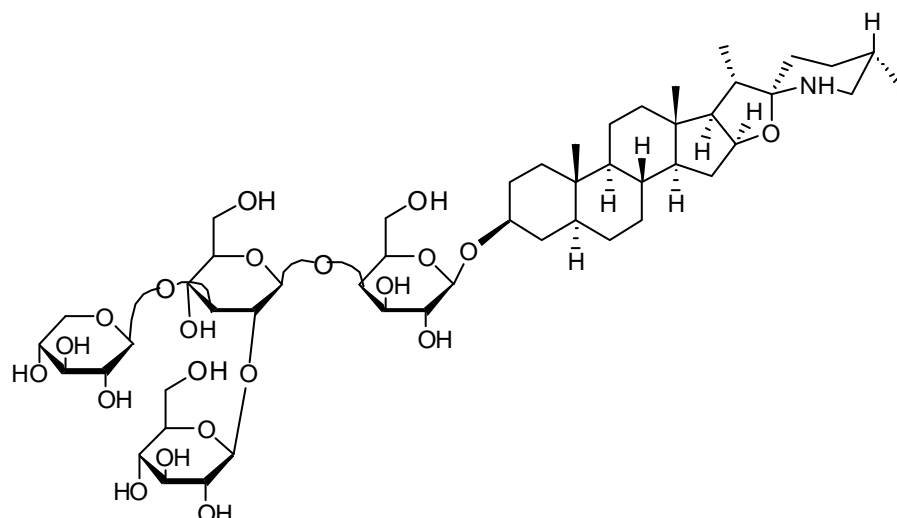
ー C-クラリン III
(C-Curarine III)



(20) ポルフィリン (アルカロイド)
(Porphyrine (alkaloid))

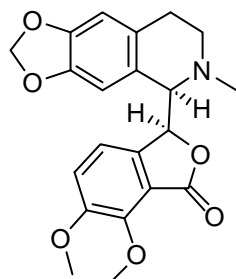


- (21) トマチン
(Tomatine)

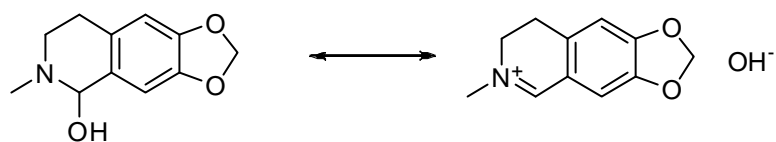


- (22) タンニン酸アルカロイド (タンニン酸ケリドニン、タンニン酸コルヒチン及びタンニン酸ペリチェリン) (Alkaloid tannates (chelidonium tannate, colchicine tannate, pelletierine tannate, etc.))

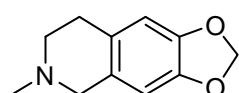
- (23) ヒドラスチン
(Hydrastine)



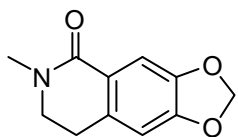
- (24) ヒドラスチニン
(Hydrastinine)



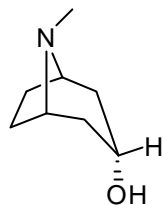
- (25) ヒドロヒドラスチニン
(Hydrohydrastinine)



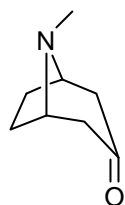
- (26) オキシヒドラスチニン
(Oxohydrastinine)



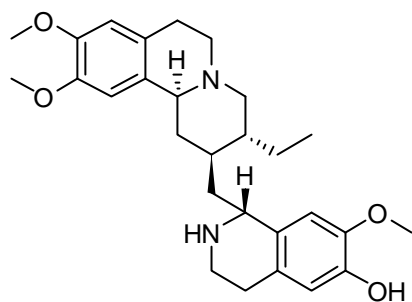
- (27) トロピン (トロパン-3-オール)
(Tropine (tropan-3-ol))



- (28) トロピノン
(Tropinone)



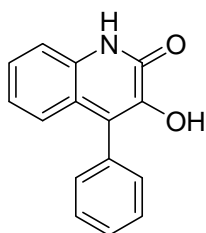
- (29) セフェリン
(Cephaeline)



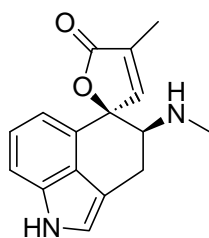
(I J) その他のアルカロイド (植物由来でないもの)
(Other alkaloids of non vegetal origi)

(1) 菌類アルカロイド
(Fungal Alkaloids)

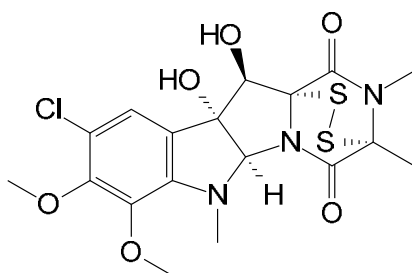
- ビリジカチン
(Viridicatin)



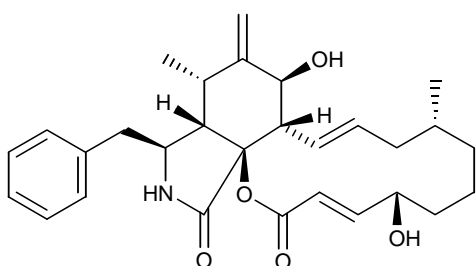
- ルグロバシン A
(Rugulovasine A)



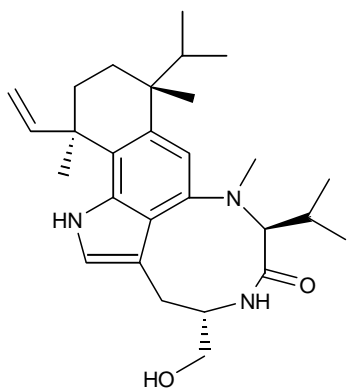
- スポリデスミン A
(Sporidesmin A)



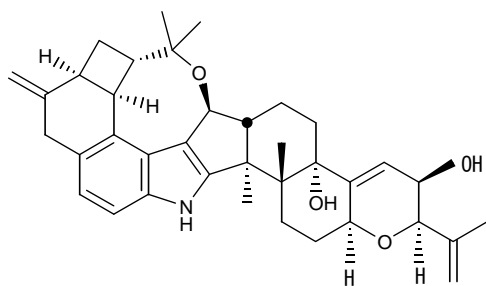
- サイトカラシン b
(Cytochalasin b)



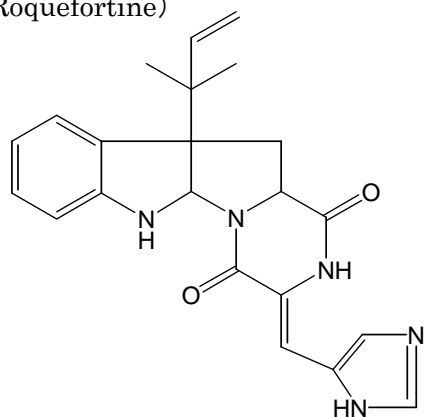
- テレオシジン B4
(Teleocidin B4)



- ペニトレム D
(Penitrem D)

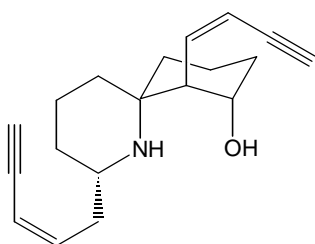


- ロックフォルチン
(Roquefortine)

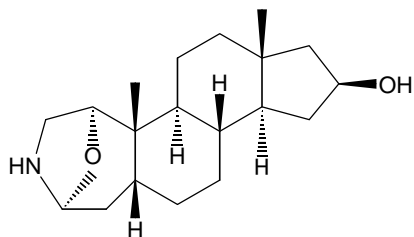


(2) 動物アルカロイド
(Animal Alkaloids)

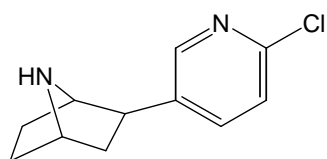
- ヒストリオニコトキシシン
(Histrionicotoxin)



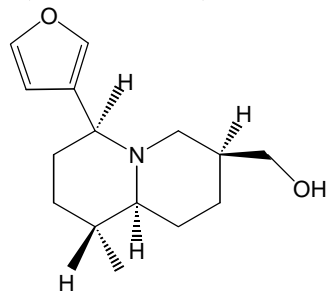
- ・ サマンダリン
(Samandarine)



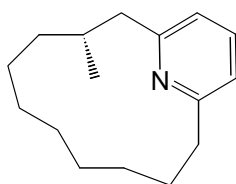
- ・ エピバチジン
(Epibatidine)



- ・ カストラミン
(Castoramine)

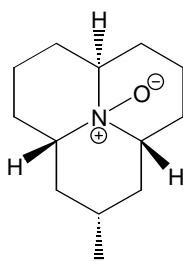


- ・ ムスコピリジン
(Muscopyridine)

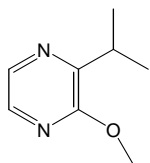


(3) 昆虫アルカロイド
(Insect Alkaloids)

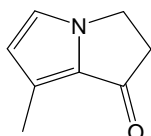
- ・ コッシネリン
(Coccinelline)



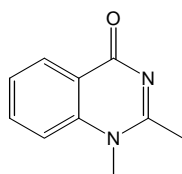
- 2-イソプロピル-3-メトキシピラジン
(2-Isopropyl-3-methoxypyrazine)



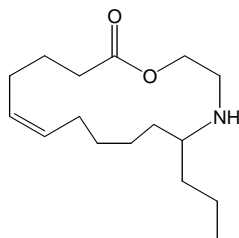
- ダナイドン
(Danaidone)



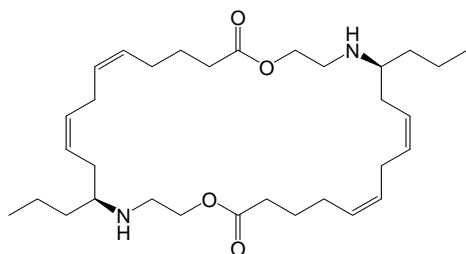
- グロメリン
(Glomerine)



- エピラクネン
(epilachnene)



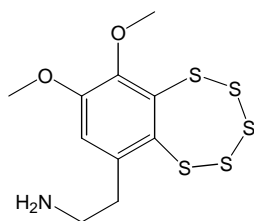
- ポリアザマクロライド
(Polyazamacrolide)



(化合物群のうちの一つ)

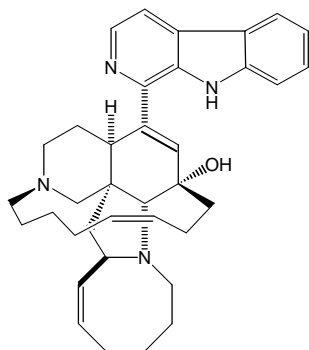
- (4) 海棲 (かいせい) アルカロイド
(Marine Alkaloids)

- バラシン
(Varacin)

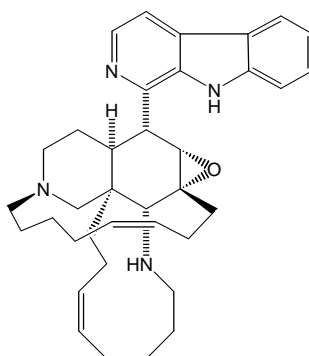


- マンザミン
(Manzamine)

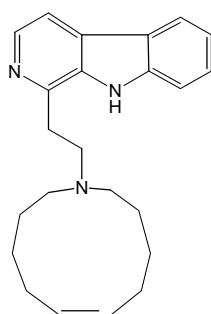
- マンザミン A
(Manzamine A)



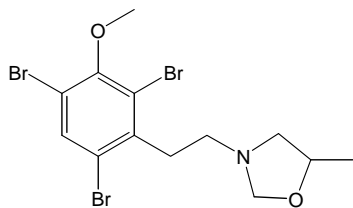
- マンザミン B
(Manzamine B)



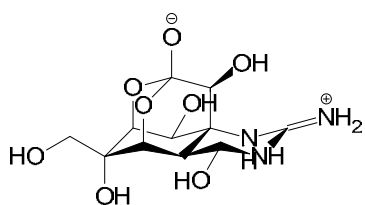
- マンザミン C
(Manzamine C)



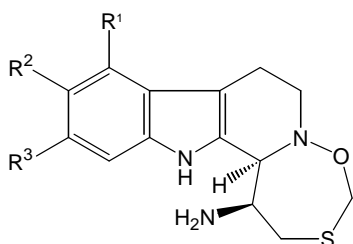
- コンボルタミン D
(Convolutamine D)



- テトロドトキシシン
(Tetrodotoxin)



オイジストミン
(Eudistomin)



Eudistomin C、 $R^1 = H, R^2 = OH, R^3 = Br$

Eudistomin E、 $R^1 = Br, R^2 = OH, R^3 = H$

Eudistomin K、 $R^1 = R^2 = H, R^3 = Br$

Eudistomin L、 $R^1 = R^3 = H, R^2 = Br$

(5) 細菌アルカロイド
(Bacterial Alkaloids)

- プロシアニン
(Procyanine)

