

Алкалоиды

Технические характеристики

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Alkaloids

Alkaloids are nitrogen-containing small molecules which are mainly found in plants. To date, approximately 27 thousand alkaloids have been reported in which 21 thousand were of plant origin.

Since most of the alkaloids exhibit potent bioactivity, they are the main component of many herbal medicines. Some alkaloids are also used as pharmaceuticals. Alkaloids interact with proteins electrostatically due to the positive charge of the nitrogen atoms which facilitates binding to the negative charge of the proteins. Especially, pharmaceutical alkaloids tend to bind to the receptors in neural systems.

Biosynthesis

Biosynthetic pathways to alkaloids vary greatly depending on the nitrogen source. Alkaloids are biosynthesized from various kinds of amino acids as depicted in Figure 1. Further complex alkaloids are also biosynthesized by attaching another alkaloid to the original skeletons.

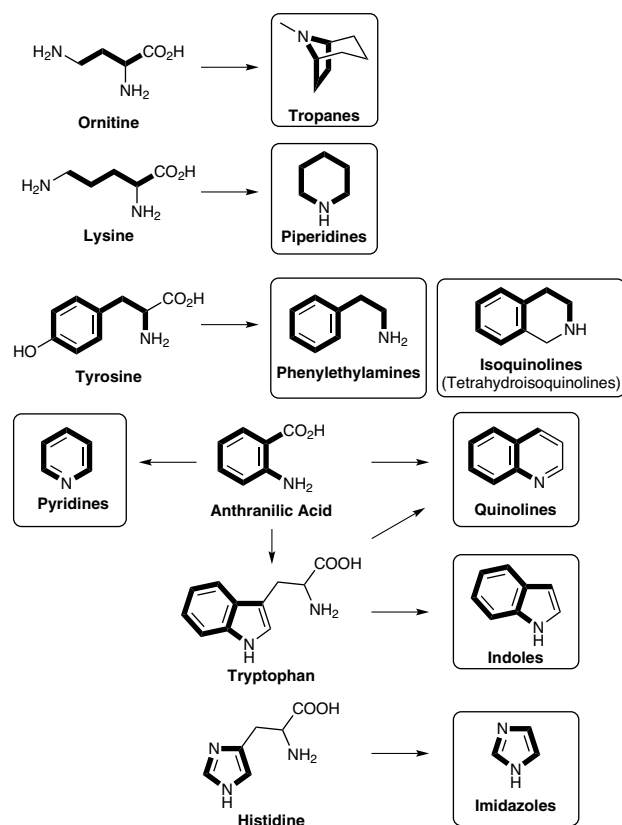


Figure 1. Alkaloid Biosynthesis and Basic Structure

Structure Classification

In the IUPAC Nomenclature Appendix, 67 alkaloid parent structures are shown. They can be classified into their basic skeletons based on their biosynthetic origins as shown in Figure 1. In this section, alkaloids are categorized into nine: eight as shown above and purine alkaloids as the ninth.

Storage Precautions

Alkaloids are relatively stable at room temperature, however, they tend to form carbonate salts due to their basicity by reaction with carbon dioxide in the air. In addition, they are usually colorized by reaction with oxygen. Therefore, opened bottles should be stored in the refrigerator or frozen with inert gas such as nitrogen or argon.

Solubility

In general, alkaloids dissolve in acidic water. Their salts dissolve in neutral water. They are usually insoluble in neutral water as free forms, but soluble in polar organic solvents such as chloroform, methanol or DMSO.

Analysis

HPLC : In the reversed phase mode using an ODS column, peak tailing is suppressed by addition of acetic acid or trifluoroacetic acid to the mobile phase. Effective analysis would be achieved by a mixed mode column, TCI-Dual, with ion-exchange and reversed phase modes simultaneously. Detection is generally conducted by a UV detector.

TLC : In a normal phase silica gel TLC analysis, a solvent system of chloroform-methanol-aqueous ammonia gives a relatively a good separation. NH₂-type silica gel is also effective. Dragendorff's reagent is a selective visualizing reagent for alkaloids. Tertiary amines and quaternary ammonium salts give orange spots.

WARNING

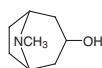
Some of the alkaloids may cause serious physiological actions in very minute amounts. They may cause paralysis, convulsions, and death in the worst case. To avoid inhalation and contacting with skin, wear protective goggles, mask and eyeglasses when handling. Sufficient caution should be taken, when using these compounds, from the opening to the disposal of the reagents.

Reference

P. M. Dewick, in *Medicinal Natural Products*, 3rd ed., John Wiley & Sons, Chichester, 2009, p. 311.

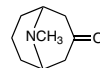
Tropane Alkaloids

T0534 5g 25g



Tropine
CAS RN: 120-29-6

P2648 1g 5g



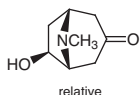
Pseudopelletierine
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N0844 5g 25g



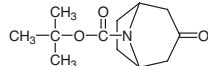
Nortropinone Hydrochloride
CAS RN: 25602-68-0

H1289 1g



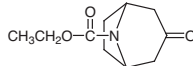
(±)-exo-6-Hydroxytropinone
CAS RN: 5932-53-6

B3401 1g 5g



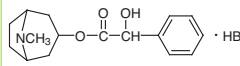
N-Boc-nortropinone
CAS RN: 185099-67-6

E0834 5g 25g



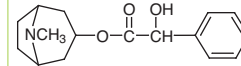
N-(Ethoxycarbonyl)-nortropinone
CAS RN: 32499-64-2

H0155 1g



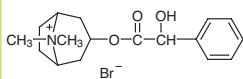
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H0156 1g 25g



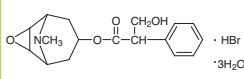
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H0448 5g 25g



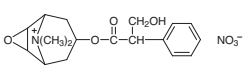
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S0021 1g 10g



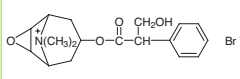
Scopolamine Hydrobromide Trihydrate
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S0230 1g 5g



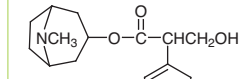
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S0231 1g



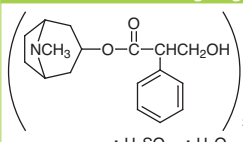
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A0754 5g 25g



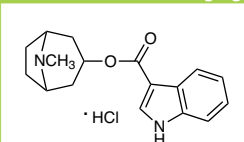
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A0550 5g 25g



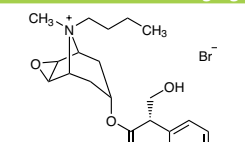
Atropine Sulfate Monohydrate
CAS RN: 5908-99-6

T2743 1g 5g



Tropisetron Hydrochloride
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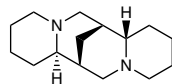
B6485 1g 5g



Buscopan
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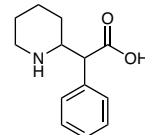
Piperidine Alkaloids

S0884 1g



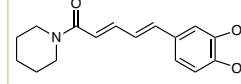
(+)-Sparteine
CAS RN: 492-08-0

R0111 1g 5g



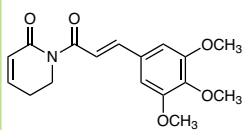
Ritalinic Acid
CAS RN: 19395-41-6

P0460 1g 5g



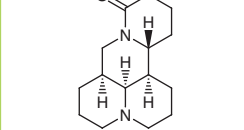
Piperine
CAS RN: 94-62-2

P2361 25mg



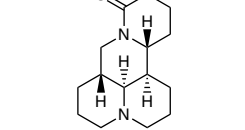
Piperlongumine
CAS RN: 20069-09-4

M2120 200mg 1g



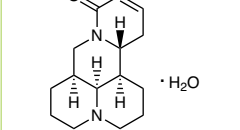
Matrine
CAS RN: 519-02-8

M3093 50mg 250mg



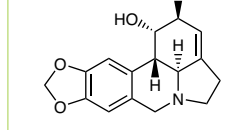
Sophoridine
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O0505 25mg 100mg



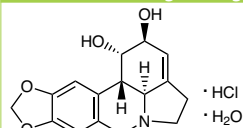
Sophocarpine Monohydrate
CAS RN: 145572-44-7

L0445 250mg



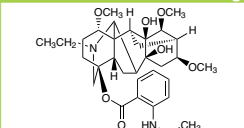
Lycorine
CAS RN: 476-28-8

L0319 25mg 100mg



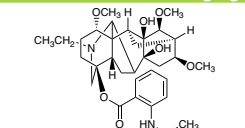
Lycorine Hydrochloride Monohydrate
CAS RN: 6150-58-9

L0442 250mg



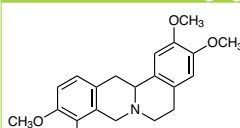
Lappaconitine
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L0272 200mg 1g



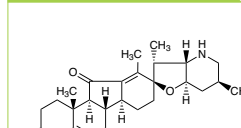
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CAS RN: 97792-45-5

T3650 1g 5g



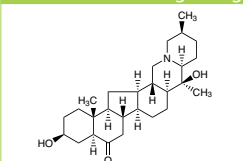
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J0009 10mg



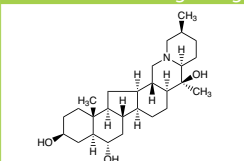
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P2609 10mg 50mg



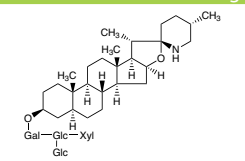
Peiminine
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P2610 5mg 25mg



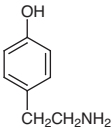
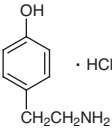
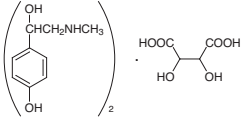
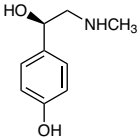
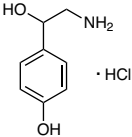
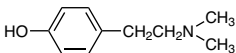
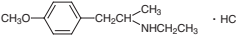
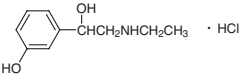
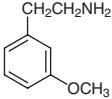
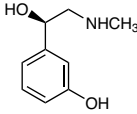
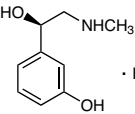
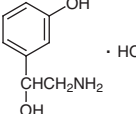
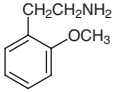
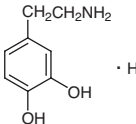
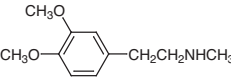
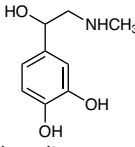
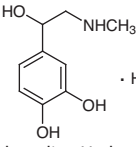
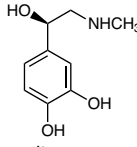
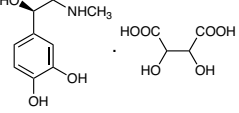
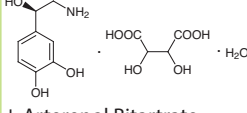
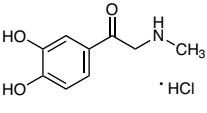
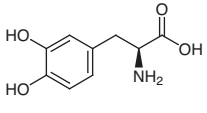
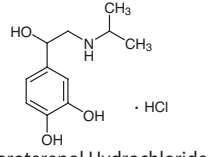
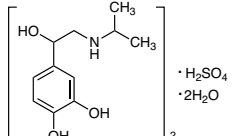
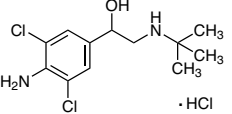
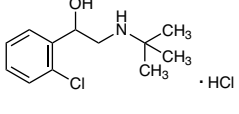
Peimine
CAS RN: 23496-41-5

T3636 100mg

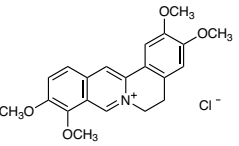
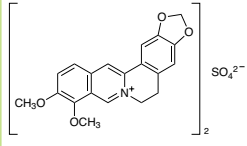
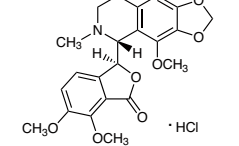
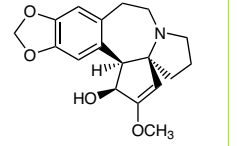
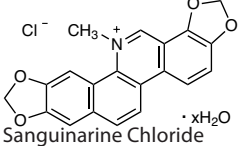
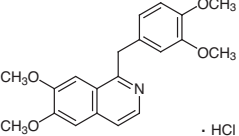
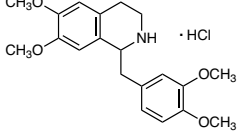
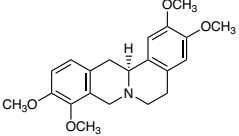


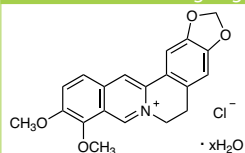
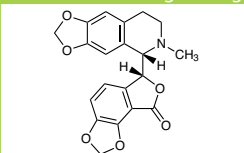
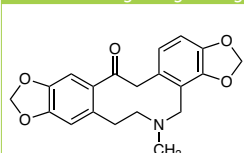
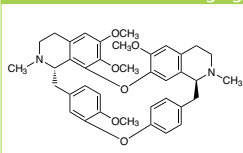
Tomatine from Tomato
CAS RN: 17406-45-0

Phenylethylamine Alkaloids

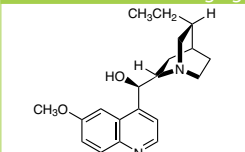
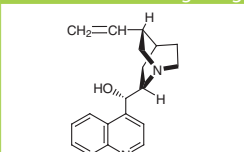
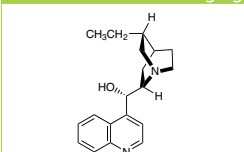
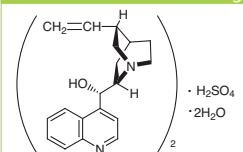
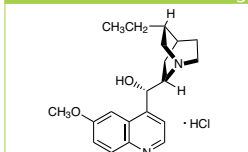
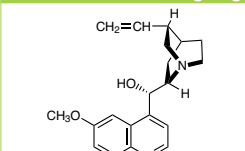
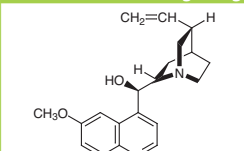
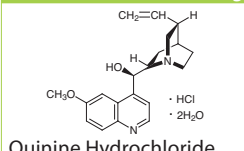
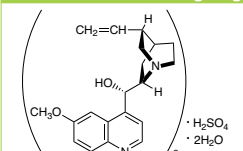
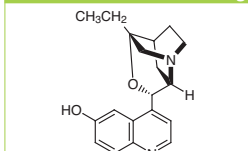
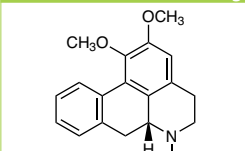
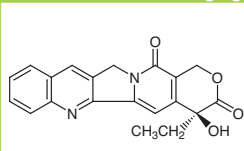
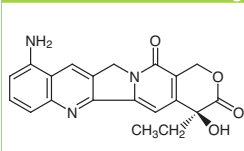
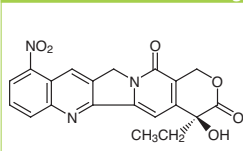
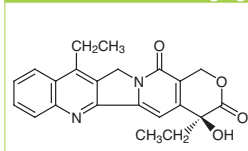
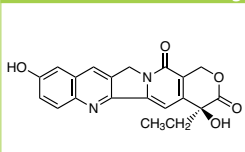
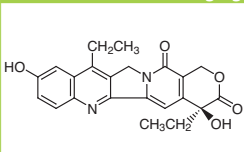
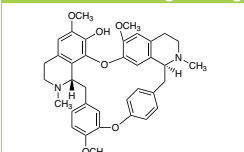
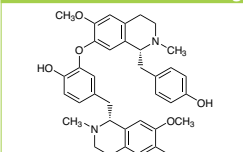
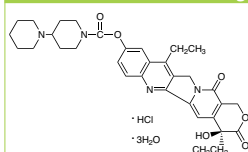
Phenylethylamine Alkaloids		A0302 1g 25g 250g  Tyramine CAS RN: 51-67-2	A0303 1g 25g  Tyramine Hydrochloride CAS RN: 60-19-5	S0233 25g  Synephrine Tartrate CAS RN: 16589-24-5
Y0012 1g 5g  (-)-Synephrine CAS RN: 614-35-7	O0413 1g 5g 25g  Octopamine Hydrochloride CAS RN: 770-05-8	H1351 1g 5g  Hordenine CAS RN: 539-15-1	E0387 25g  4-(2-Ethylaminopropyl)-anisole Hydrochloride CAS RN: 93963-24-7	E0381 5g 25g  Etilefrine Hydrochloride CAS RN: 943-17-9
M1891 5g 25g  2-(3-Methoxyphenyl)-ethylamine CAS RN: 2039-67-0	P0395 5g 25g  L-Phenylephrine CAS RN: 59-42-7	P0398 5g 25g  (R)-Phenylephrine Hydrochloride CAS RN: 61-76-7	N0389 5g 25g  DL-Norphenylephrine Hydrochloride CAS RN: 4779-94-6	M0844 5mL 25mL  2-Methoxyphenethylamine CAS RN: 2045-79-6
A0305 1g 5g 25g  Dopamine Hydrochloride CAS RN: 62-31-7	D2104 25g  N-Methylhomoveratrylamine CAS RN: 3490-06-0	A0172 1g 25g  DL-Adrenaline CAS RN: 329-65-7	A0909 5g 25g  DL-Adrenaline Hydrochloride CAS RN: 329-63-5	A0173 1g  L-Adrenaline CAS RN: 51-43-4
A0175 1g 5g 25g  L-Adrenaline Bitartrate CAS RN: 51-42-3	A0906 1g  L-Arterenal Bitartrate Monohydrate CAS RN: 108341-18-0	A1234 5g 25g  Adrenalone Hydrochloride CAS RN: 62-13-5	D0600 5g 25g 100g  L-DOPA CAS RN: 59-92-7	I0260 5g 25g  Isoproterenol Hydrochloride CAS RN: 51-30-9
I0261 5g 25g  Isoproterenol Sulfate Dihydrate CAS RN: 299-95-6	C2691 100mg 500mg  Clenbuterol Hydrochloride CAS RN: 21898-19-1	T2954 100mg  Tulobuterol Hydrochloride CAS RN: 56776-01-3		

Isoquinoline Alkaloids

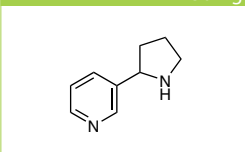
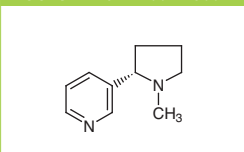
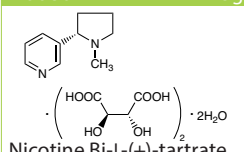
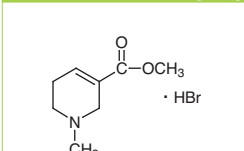
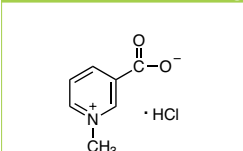
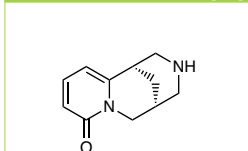
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		P0016 25g  Papaverine Hydrochloride CAS RN: 61-25-6	N0918 5g 25g  Norlaudanosine Hydrochloride CAS RN: 6429-04-5	T3311 250mg  L-Tetrahydropalmatine CAS RN: 483-14-7

B0450 5g 25g**B1890** 25mg 100mg**P2611** 5mg 25mg 100mg**T3321** 200mg 1g

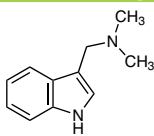
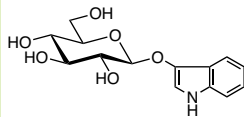
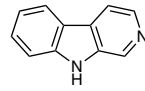
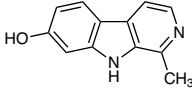
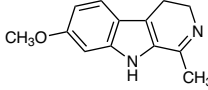
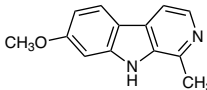
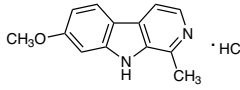
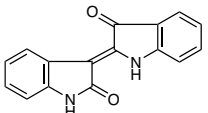
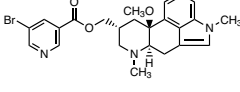
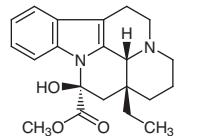
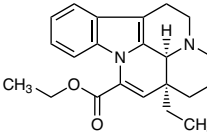
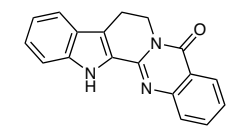
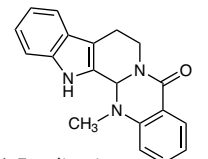
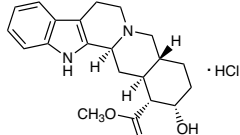
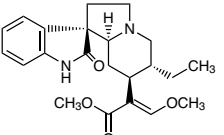
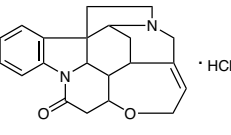
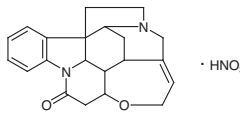
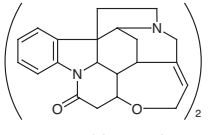
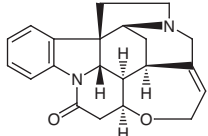
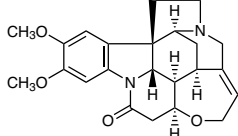
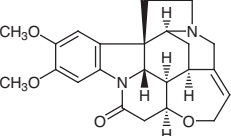
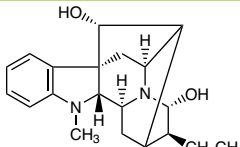
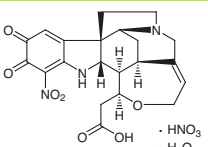
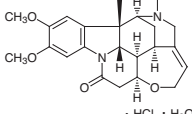
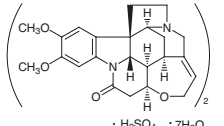
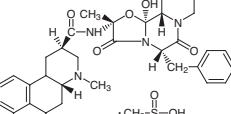
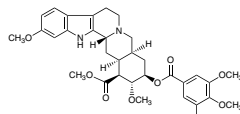
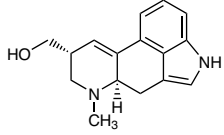
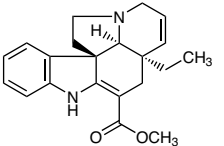
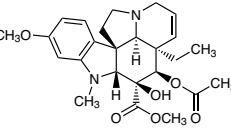
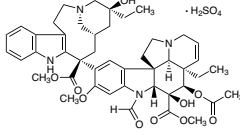
Quinoline Alkaloids

D6112 1g 5g**C0350** 25g 200g**H1701** 1g 5g**C0791** 25g**H0752** 25g**Q0006** 5g 25g**Q0028** 25g 100g**Q0030** 25g**Q0010** 5g 25g**I0728** 1g**N1170** 250mg**C1495** 100mg 1g**A2063** 10mg**N0822** 100mg**E0781** 100mg 1g**H1463** 1g**E0748** 100mg 1g**F1173** 20mg 100mg**L0432** 10mg**I0714** 100mg

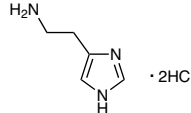
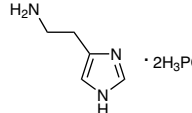
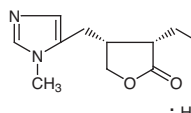
Pyridine Alkaloids

N1222 250mg**N0079** 25mL 100mL 500mL**N0080** 25g**A0523** 5g 25g**T1429** 5g**C2609** 100mg 1g

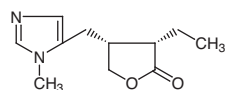
Indole Alkaloids

		D0653 25g 250g		I1012 200mg		P1121 100mg	
		Gramine CAS RN: 87-52-5		Indican (Plant Indican) CAS RN: 487-60-5		9H-Pyrido[3,4-b]indole CAS RN: 244-63-3	
H1360 200mg 1g	H1237 1g 5g	H0001 1g	H0002 100mg 1g	I0868 25mg			
							
Harmol CAS RN: 487-03-6	Harmaline CAS RN: 304-21-2	Harmine CAS RN: 442-51-3	Harmine Hydrochloride CAS RN: 343-27-1	Indirubin CAS RN: 479-41-4			
N0904 100mg 1g	V0061 1g 5g	V0115 100mg 1g	R0102 200mg	E1012 1g			
							
Nicergoline CAS RN: 27848-84-6	Vincamine CAS RN: 1617-90-9	Vinpocetine CAS RN: 42971-09-5	Rutaecarpine CAS RN: 84-26-4	(±)-Evodiamine CAS RN: 518-18-3			
Y0002 5g 25g	R0105 25mg	S0257 25g	S0093 25g	S0094 25g			
							
Yohimbine Hydrochloride CAS RN: 65-19-0	Rhynchophylline CAS RN: 76-66-4	Strychnine Hydrochloride CAS RN: 1421-86-9	Strychnine Nitrate CAS RN: 66-32-0	Strychnine Sulfate Pentahydrate CAS RN: 60491-10-3			
S0249 25g	B0670 25g	B0946 25g	A3236 1g	C0001 1g 5g			
							
Strychnine CAS RN: 57-24-9	Brucine Hydrate CAS RN: 57-24-9	Brucine Anhydrous CAS RN: 357-57-3	Ajmaline CAS RN: 4360-12-7	Catheline Monohydrate CAS RN: 561-20-6			
B0671 5g	B0672 25g	D2633 100mg 1g	R0007 1g 5g	B0397 25g 100g			
							
Brucine Hydrochloride Monohydrate CAS RN: 5786-96-9	Brucine Sulfate Heptahydrate [for Nitrate Analysis] CAS RN: 60583-39-3	Dihydroergotamine Mesylate CAS RN: 6190-39-2	Reserpine CAS RN: 50-55-5	Betanin (Red Beet extract diluted with Dextrin) CAS RN: 7659-95-2			
L0413 5g	T3500 250mg	V0193 100mg	V0129 25mg 100mg				
							
Lysergol CAS RN: 602-85-7	Tabersonine CAS RN: 4429-63-4	Vindoline CAS RN: 2182-14-1	Vincristine Sulfate CAS RN: 2068-78-2				

Imidazole Alkaloids

H0146 1g 5g 25g	H0147 1g 5g 25g	P0399 5g
		
Histamine Dihydrochloride CAS RN: 56-92-8	Histamine Diphosphate CAS RN: 51-74-1	Pilocarpine Nitrate CAS RN: 148-72-1

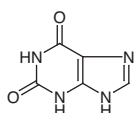
P0434 1g 5g



· HCl
Pilocarpine Hydrochloride
CAS RN: 54-71-7

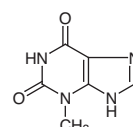
Purine Alkaloids

X0004 25g



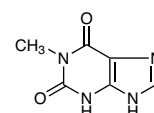
Xanthine
CAS RN: 69-89-6

M2073 5g 25g



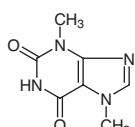
3-Methylxanthine
CAS RN: 1076-22-8

M2432 50mg 200mg



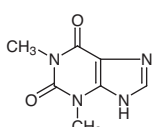
1-Methylxanthine
CAS RN: 6136-37-4

T0178 25g 100g 500g



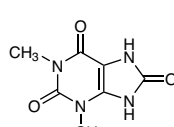
Theobromine
CAS RN: 83-67-0

T0179 25g 100g 500g



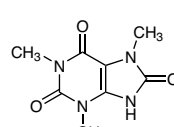
Theophylline
CAS RN: 58-55-9

D6169 250mg



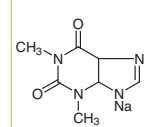
1,3-Dimethyluric Acid
CAS RN: 944-73-0

T3646 100mg



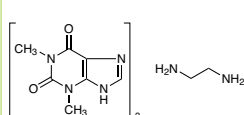
1,3,7-Trimethyluric Acid
CAS RN: 5415-44-1

T0180 25g



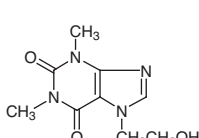
Theophyllol
CAS RN: 8002-89-9

A2805 25g 100g



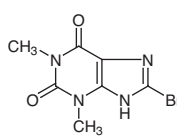
Aminophylline
CAS RN: 317-34-0

H0402 25g 500g



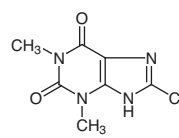
Etopylline
CAS RN: 519-37-9

B3456 1g 5g



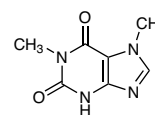
8-Bromotheophylline
CAS RN: 10381-75-6

C0293 25g 250g



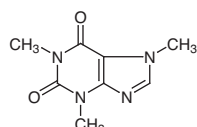
8-Chlorotheophylline
CAS RN: 85-18-7

D5696 25mg 100mg



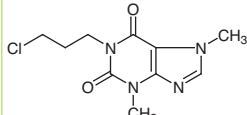
Paraxanthine
CAS RN: 611-59-6

C2042 25g 500g



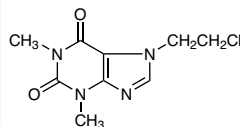
Caffeine
CAS RN: 58-08-2

C1103 25g



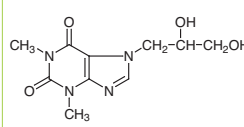
1-(3-Chloropropyl)-theobromine
CAS RN: 74409-52-2

C2748 5g 25g



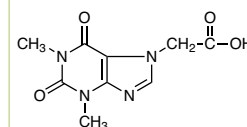
7-(2-Chloroethyl)theophylline
CAS RN: 5878-61-5

D3600 25g



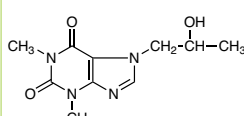
Dyphylline
CAS RN: 479-18-5

T2941 25g



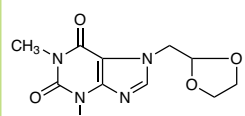
Acefylline
CAS RN: 652-37-9

H1430 5g 25g



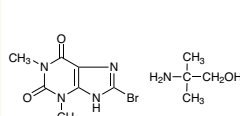
Proxyphylline
CAS RN: 603-00-9

D4302 1g 25g



Doxofylline
CAS RN: 69975-86-6

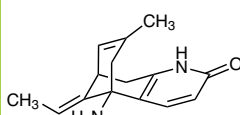
P2359 1g 5g



Pamabrom
CAS RN: 606-04-2

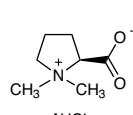
Other Alkaloids

H1700 10mg 100mg



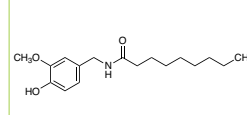
(-)-Huperzine A
CAS RN: 102518-79-6

S0358 10mg



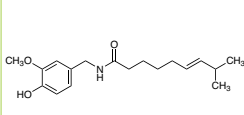
Stachydrine Hydrochloride
CAS RN: 4136-37-2

M0900 10g



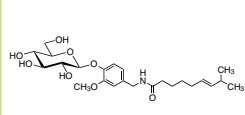
Capsaicin (Synthetic)
CAS RN: 2444-46-4

M1149 1g



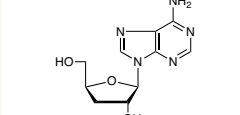
Capsaicin (Natural)
CAS RN: 404-86-4

C2548 200mg



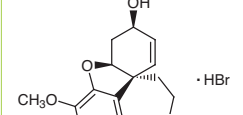
Capsaicin β-D-Glucopyranoside
CAS RN: 153409-16-6

C2689 25mg



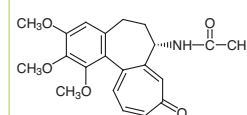
Cordycepin
from *Cordyceps militaris*
CAS RN: 73-03-0

G0293 100mg 1g



Galantamine Hydrobromide
CAS RN: 1953-04-4

C0380 500mg 5g



Colchicine
CAS RN: 64-86-8

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