

MICROGRAM

Laboratory Operations Division
Office Of Science And Drug Abuse Prevention

BUREAU OF NARCOTICS & DANGEROUS DRUGS / U.S. DEPARTMENT OF JUSTICE / WASHINGTON, D.C. 20537

Vol.III, No. 2

March-April, 1970

STP (4-Methyl-2,5-dimethoxyamphetamine) hydrochloride was found coating the inside of capsules sent to BNDD from Germany. The capsules were clear, hard gelatin, standard shape size No. 0. Average weight was 114 milligrams. Each capsule had a white crystalline coating on inner surface of capsule body. Apparently a measured amount of solution had been placed in the capsule body, after which it was rotated to spread the solution on the inner surface. The substance contained 8.7 milligrams STP (DOM) HCl per capsule. These were the first STP capsules of this type seen by our laboratory. A few years ago, capsules were obtained in the U.S. similarly coated with LSD.

STP (Free Base) on laboratory filter paper, also from Germany, was seen for the first time in our laboratory. The STP spots, containing approximately 8 milligrams STP base each, were 5/8 to 3/4 inch in diameter. The paper was 1 1/2 inches square.

Phencyclidine (Free Base) was recently analyzed on parsley leaves. Called "Angel Dust," the phencyclidine on two samples of leaves was 2.6% and 3.6%. Approximately thirty pounds of 94% pure powder was also analyzed. (For identification of phencyclidine base, see Microgram, II, 1, p.3 (Jan 1969).

IMITATIONS of well-known drug products are examined frequently in our Special Testing and Research Laboratory. Many of these are well made preparations and closely resemble the imitated product. This emphasizes the inadequacy of identifying a product as that of a known manufacturer merely from comparison with photographs. A positive identification can only be made by a qualified person comparing the unknown to an authentic reference sample.

"LET SUNSHINE DO" is the slogan on a recent LSD product. One LSD tablet in a cellophane wrapper is held to a card by a gummed red star. The star is at the end of a rainbow breaking through a cloud, from which blue drops are falling on green grass. The sun is partly visible, shining from under the rainbow. At the bottom of the card, in script, is printed, "L.S.D. 300 micrograms." The card, about 4 1/2 x 5 1/2 inches, is printed in multiple color, with professional quality artwork. The BNDD laboratory analyzed the one tablet available, and found 207 micrograms.

Analytical methods in **Microgram** do not have official status. Use of funds for printing this publication approved by the Bureau of the Budget, April 8, 1969. **CAUTION:** Use of this publication is restricted to forensic scientists serving law enforcement agencies.

LSD spot, containing 80 micrograms of LSD, was on a piece of a paper concealed under a U.S. postage stamp.

LSD on gum drops is reported.

LSD on licorice is reported in the West.

LSD-PCP Tablets reported in the South. They are about 4 mm diameter, round, biconvex and have a mottled color.

HEROIN has been found concealed in light bulbs.

MARIHUANA has been found in quilted mattresses from Viet Nam. Marihuana is found in the quilted squares.

"LBJ", or JB-336 (N-Methyl-3-piperidylbenzilate HCl) has been reported on green blotter paper.

AMPHETAMINE TABLETS, inscribed "SCHORS," are being encountered.

PCP is reported on white blotter paper.

MDA (3,4-Methylenedioxyamphetamine) has been identified in a brown stain on Maalox tablets (Rorer).

METHAPYRILENE reportedly is being put on tobacco and smoked.

METHAPYRILENE is being found in capsules, tablets and powder. The powder is found mixed with lactose and starch, with quinine, and with lactose. It is also found in heroin, with a variety of adulterants or diluents, including quinine, procaine, lactose and sucrose. The drug has been found also in a starch solution.

MARIHUANA is reported in filter-tipped cigarettes from Viet Nam. The marihuana is placed in the middle of the cigarettes, and the ends are plugged with tobacco. The cigarettes are repackaged, which requires one cigarette to be reversed. Loose flecks of marihuana can be detected at the ends of the packs, and the middle portions of the packs are softer than the legitimate product.

NO SYNTHETIC TETRAHYDROCANNABINOL has been found, and no STRYCHNINE has been identified in hallucinogenic drugs submitted to them, according to the reports of seventy forensic scientists meeting in Chicago, February 24, 1970.

Mephentermine Inhalers are reportedly still being abused by young people in the East.

"TRI" a Polish cleaning fluid is reportedly being abused by young persons in Poland, according to the Kansas City Star, March 15, 1970. Called "Blue," the chemical is sniffed. Reportedly two deaths have occurred, and some 200 addicts have been hospitalized.

Chicago Police Department Crime Laboratory has supplied us with their report of analyses of narcotics and dangerous drugs for the year 1969:

<u>DRUG</u>		<u>AMOUNT</u>
Amphetamine	Gms.	89.99
	Tablets/Capsules	27,602
	Liquid/ml.	220.10
Barbiturates	Gm.	.07
	Tablets/Capsules	118,235
	Liquid/ml.	32.0
Camphorated Tr. Opium (Paregoric)	Liquid/oz.	14½
Chloral hydrate	Tablets/Capsules	7
Cocaine	Gms.	210.98
Codeine	Gms.	171.00
	Tablets/Capsules	3720
	Liquid/ml.	50
Darvon	Tablets/Capsules	1933
Demerol	Tablets/Capsules	57
	Liquid/ml.	5
DMA	Liquid/ml.	3
DMT	Capsules/Tablets	2
	Gms.	5.75
Doriden	Tablets/Capsules	650
Dormin (contains methapyrilene)	Tablets/Capsules	182
Driver's Pills	Tablets/Capsules	79
Equanil	Tablets/Capsules	163
Frenquel	Tablets/Capsules	5
Heroin	Gms.	2839.67
LBJ	Gms.	1.0
	Cubes	12
	Liquid/ml.	7.4
	Tablets/Capsules	1701
Librium	Tablets/Capsules	1701
Marihuana	Gms.	410,049.91
	Plants	57
	Cigarettes	3176
	Liquid/ml.	5
MDT	Liquid/ml.	5
Methadone	Tablets/Capsules	331
	Tablets/Capsules	13,954
LSD	Powder	1000 mcgs.
	Tablets/Capsules	510
MDA	Tablets/Capsules	101
	Gms.	13.75
	Liquid/ml.	13
Morphine	Tablets/Capsules	4
	Gms.	40.54
Noludar	Liquid/ml.	10
Opium	Gms.	40.54
	Liquid/ml.	10

Papaverine	Tablets/Capsules	800
	Liquid	4
PCP	Tablets/Capsules	923
Percodan	Tablets/Capsules	262
Preludin	Tablets/Capsules	39
Ritalin	Tablets/Capsules	64
Robitussin	Liquid/oz.	52
Thorazine	Tablets/Capsules	140
Sparine	Tablets	28
Stelazine	Tablets	19
Strychnine	Tablets/Capsules	40
STP	Tablets/Capsules	2612
	Gms.	0.52
Talwin	Tablets/Capsules	3
	Liquid/ml.	4
Valium	Tablets/Capsules	917

Benadryl, Cosanyl, Desbutal, Dilantin, ergot, and other drugs, as well as glue sniffing cases and several hundred negatives were reported.

MEETINGS:

Southern Association of Forensic Scientists, Auburn, Ala. April 17-18, 1970.
Program Chairman: Carlos L. Rabren, P. O. Box 231, Auburn, Ala. 36830.

Forensic Chemist Seminar will be held April 27-May 1, 1970, at the BNDD National Training Center. (The class is filled.)

Western Conference on Criminal and Civil Problems, Wichita, Kansas, May 14, 15 and 16, 1970. Contact W. G. Eckert, M.D., Saint Francis Hospital, Wichita, Kansas.

Second World Meeting on Medical Law, Washington, D. C., August 18-21, 1970.
Contact: R. Dierkens, Dr. Jur., Agrege Law Facility, Secretary General, 5 Apotheekstraat B-9000 Ghent, Belgium.

American Academy of Forensic Sciences had an interesting and stimulating annual meeting in Chicago, Illinois in February, 1970. Edwin Conrad, J. D., M.A., of Madison, Wisconsin was elected President. Next year's annual meeting will be in Phoenix, Arizona, February 24-27, 1971.

Forensic chemists met informally, February 24, 1970, prior to the Annual Convention of the American Academy of Forensic Sciences. Approximately seventy chemists, toxicologists, criminalists, and law enforcement officials from throughout the U. S., and from Canada attended and exchanged information and opinions. The meeting was hosted by Mr. Jerry D. Nelson, Chief Chemist of BNDD's Chicago Regional Laboratory.

Superintendent Mitchell Ware, Illinois Bureau of Investigation, commented on the need for input from chemists for planning, advice on legislation and intelligence.

Captain David J. Purtell, Director, Chicago Police Department Crime Laboratory, discussed the need for inter-laboratory exchange of information to keep current with the drug problem.

Director Andrew H. Principe, Executive Director, Northern Illinois Crime Laboratory, Highland Park, Ill., opened the meeting to discussion of common problems and intelligence. The glossary (mentioned below) resulted from this discussion, and most of the items of intelligence in this issue came from the meeting. The critical needs of crime laboratories was discussed, and LEAA priorities in the allocation of funds were questioned. BNDD representatives were questioned as to why more drug standards were not supplied.

Most participants spent the afternoon visiting the BNDD laboratory and the Chicago Police Department Crime Laboratory.

DRUG STANDARDS, or suitable compounds for references are available from local chemical supply houses, or from the following and other firms:

K & K Laboratories, Inc.
121 Express Street
Engineers Hill
Plainview, New York 11803

Eastman Kodak Co.
Eastman Organic Chemicals
Rochester, New York 14650

Aldrich Chemical Company, Inc.
10 Ridgedale Avenue
P. O. Box AA
Cedar Knolls, New Jersey 07927

Koch-Light Laboratories Ltd
Colnbrook Buckinghamshire
England

U.S.P. Reference Standards are available at \$10.00 each from:

U.S.P. Reference Standards
4630 Montgomery Avenue
Bethesda, Maryland 20014

National Formulary Reference Standards are available at \$10.00 each from:

N. F. Reference Standards
American Pharmaceutical Association
2215 Constitution Avenue, N.W.
Washington, D. C. 20037

A GLOSSARY OF "street" names for drugs and related products was agreed upon by participants at a recent forensic chemists' meeting in Chicago. Names and terms will be submitted to Microgram for publication. The names will be published as received, and a previous glossary will be printed in parts. Later in the year, an updated glossary will be published. Until then, you may wish to cut out the names, and paste them on cards.

Submissions to Microgram are preferred on 3x5" cards, with the drug "street" name typed or printed in capital letters at the top left, and the definition or recognized name at the top right.

The following have been recently submitted:

SOUND	Benactyzine HCl
PURPLE OZOLINE	LSD
MICRO DOTS	LSD
PURPLE HAZE	LSD
PILLOWS	Heat sealed, black polyethylene bags containing drugs
ANGEL DUST	Phencyclidine base on parsley
PURPLE BARRELS	LSD
GRAPE PARFAIT	LSD
YELLOW DIMPLES	LSD

GLOSSARY

A.

A BOOT	Under influence of drugs
ACE	Marihuana cigarettes
ACID	LSD
ACID HEAD	LSD user
AD	Addict
ALL LIT UP	Under the influence
APPLE	Non-addict
APPLES	Fellow addict
ARE YOU ANYWHERE	Do you smoke marihuana cigarettes
AROUND THE TURN	Gone through withdrawal period
ARTILLERY	Equipment for injecting drugs

PROPOSED RULE MAKING

DEPARTMENT OF JUSTICE

Bureau of Narcotics and Dangerous Drugs

[21 CFR Part 320]

DEPRESSANT AND STIMULANT DRUGS

Proposed Listing of MDA, MMDA, TMA, JB-318, and JB-336 and their Salts and Isomers as Subject to Control

Notice is hereby given that the Director, Bureau of Narcotics and Dangerous Drugs, proposes, on the basis of investigations, and the recommendations of an advisory committee appointed pursuant to section 511(g) (1) of the Federal Food, Drug, and Cosmetic Act, that the drugs set forth below be listed as "depressant or stimulant" drugs within the meaning of section 201(v) of the Act because of their hallucinogenic effect. Having considered such recommendations, pursuant to the provisions of the Act (secs. 201(v), 511, 701, 52 Stat. 1055, as amended, 79 Stat. 227 et seq.; 21 U.S.C. 321(v), 360a, 371) and under the authority vested in the Attorney General by Reorganization Plan No. 1 of 1968 (33 F.R. 5611), and redelegated to the Director, Bureau of Narcotics and Dangerous Drugs by § 0.200 of Title 28 of the Code of Federal Regulations, it is proposed that § 320.3(c) (3) of Title 21 of the Code of Federal Regulations be amended by alphabetically inserting in the list of drugs new items, as follows:

§ 320.3 Listing of drugs defined in section 201(v) of the Act.

(c) * * *

(3) Hallucinogenic effect:

<i>Established name</i>	<i>Some trade and other names</i>
MDA, its salts, and all its isomers, such as optical and position, and all the salts thereof.	3,4-methylenedioxy amphetamine (MDA) or 4,5-methylenedioxy amphetamine. 2,3-methylenedioxy amphetamine or 5,6-methylenedioxy amphetamine.
MMDA, its salts, and all its isomers, such as optical and position, and all the salts thereof.	5 - methoxy - 3,4 - methylenedioxy amphetamine (MMDA) or 3-methoxy-4,5-methylenedioxy amphetamine. 6-methoxy-3,4-methylenedioxy amphetamine or 2-methoxy-4,5-methylenedioxy amphetamine. 2-methoxy-3,4-methylenedioxy amphetamine or 6-methoxy-4,5-methylenedioxy amphetamine. 6-methoxy-2,3-methylenedioxy amphetamine or 2-methoxy-5,6-methylenedioxy amphetamine. 5-methoxy-2,3-methylenedioxy amphetamine or 3-methoxy-5,6-methylenedioxy amphetamine. 4-methoxy-2,3-methylenedioxy amphetamine or 4-methoxy-5,6-methylenedioxy amphetamine.
TMA, its salts, and all its isomers, such as optical and position, and all the salts thereof.	3,4,5-trimethoxy amphetamine (TMA). 2,4,5-trimethoxy amphetamine or 3,4,6-trimethoxy amphetamine. 4,5,6-trimethoxy amphetamine or 2,3,4-trimethoxy amphetamine. 2,3,5-trimethoxy amphetamine or 3,5,6-trimethoxy amphetamine. 2,3,6-trimethoxy amphetamine or 2,5,6-trimethoxy amphetamine. 2,4,6-trimethoxy amphetamine.
JB-318, its salts, and all its position isomers, and all the salts thereof.	N-ethyl-3-piperidyl benzilate (JB-318). N-ethyl-2-piperidyl benzilate. N-ethyl-4-piperidyl benzilate.
JB-336, its salts and all its position isomers, and all the salts thereof.	N-methyl-3-piperidyl benzilate (JB-336). N-methyl-2-piperidyl benzilate. N-methyl-4-piperidyl benzilate.

All interested persons are invited to submit their views in writing regarding this proposal. Comments concerning any additional trade or other names that may be properly listed for the subject drugs are also invited. Views and comments should be submitted, preferably in quintuplicate, addressed to the Office of Chief Counsel, Bureau of Narcotics and Dangerous Drugs, Department of Justice, Room 611, 1405 Eye Street NW., Washington, D.C. 20537, within 30 days following the date of publication of this notice in the FEDERAL REGISTER, and may be accompanied by a memorandum or brief in support thereof.

Dated: March 2, 1970.

JOHN E. INGERSOLL, Director, Bureau of Narcotics and Dangerous Drugs.

[F.R. Doc. 70-2841; Filed, Mar. 9, 1970; 8:45 a.m.]

AN INDEX OF
ULTRAVIOLET SPECTRA OF ALKALOIDS

by: Charles B. Teer *

This index of ultraviolet spectra of alkaloids was compiled in such manner so as to make it useful for the purpose of identification and to enable the chemist to compare the spectra of a given alkaloid with others having similar spectra.

The following scheme was followed in compiling the data.

1. The spectra are listed first according to the number of maxima; then listed according to their highest maximum, in descending order. They are not cross-listed according to other maxima. For alkaloids having identical maxima they are listed in order of their absorptivity, in ascending order.
2. The spectra are considered for the range from 220 millimicrons to 400 millimicrons. In addition, separate listings are made of those alkaloids whose only maximum lies below 220 millimicrons and those which exhibit shoulders only.
3. All shoulders given in the literature reference, within the range considered, are listed in a separate column. Separate listings may be found for any alkaloid due to the interpretation of its spectra by various authors. One author may refer to one maximum as a peak while another considers it a shoulder. Others omit shoulders altogether.
4. Ethanol is considered as the major solvent. If any maximum in acidic or basic solution does not differ by 3 millimicrons or more from its maximum in ethanol; it is not included in the main tables, but will be listed in the index as no change.
5. Any particular alkaloid listed in the main tables can be found in the index which list them in alphabetical order, followed by a notation to aid in location. This notation indicates the solvent system, the number of peaks, and the highest maximum.

SOLVENT SYSTEMS

B Basic solution
Ch Chloroform
Cy Cyclohexane
E Ethanol
Et Ethyl ether
H Acidic solution
M Methanol
Mc Methylene chloride
U Unknown solvent
W Water

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TABLE 1: SINGLE MAXIMUM

<u>COMPOUND</u>	<u>A_{max}</u>	<u>Log E</u>	<u>Sh</u>	<u>Solv</u>	<u>Ref.</u>
Alstoniline HCl	391	4.54	-	M	5-111
Dihydroepi-isoquinamine	390	3.5	255, 240	E	1-829
Alstoniline Oxide	385	4.68	260	U	3-865
Berbamine	380	1.9	-	E	1-1133
Alstoniline HCl	380	4.4	280	U	3-860
Dehydroaricine HCl	372	4.18		EH	4-900
Dihydroberberine	370	4.14		E	3-783
Kynurenine	365	3.66		7	2-222
Piperettine	364	4.65		E	5-80
Dihydroharman HCl	360	4.28		E	2-251
Colchicine	354	4.2		E	2-695
Annuloline	354	4.48		Cy	4-811
Dihydroberberine	350	4.17		EH	3-783
Colchicine	350	4.21		Ch	1-908
Uleine	350	4.32		E	5-111
Quinine	348	3.74		W	2-638
Piperine	345	4.47		E	1-733
Isocolchicine	343	4.27		E	3-829
Isocolchicine	338	4.23		mc	3-829
Hydroxylycoctonine	337	1.74		EH	3-975
Harmaline	335	4.34	260	B	4-860
Deoxyvomine	330	3.6		U	1-944
Ariline	330	4.43		E	1-815
Multiflorine	326	4.16		E	4-587
Annotinine	325	1.25		E	1-698
Isoatisine, Oxo	325	1.3		EH	1-953
Alstyrine	325	4.3		E	1-821
Harmaline HCl	324	4.32		E	2-363
Athamanthine	322	4.17	217	E	3-946
Tetrahydroxybyrine	321b	4.36	238b	E	2-601
Narcotine	320	3.7		2-6	2-693
Multiflorine	320	4.14		H	4-587
Dihydroharman	320	4.17		E	2-251
Tetrahydroxybyrine	320	4.38	249	E	1-815
4-Epi-Hydroxysparteine	320	4.40		M	4-1037
Ergotamine	318	3.86		E	2-841
Cevagenine orthoacetate	316	3.45		EB	2-800
Harmaline	316	4.32		E	2-363
Rhetsinine	314	4.17		E	5-118
Dehydro-Oxodelpheline	313	1.61		E	2-742
Demethoxy-b-Erythroidine	312	3.6		E	2-450
Elliptinine	311	4.27	222	E	4-824
Tetrahydrojervine	310	1.5		E	1-1037
Uleine	309	4.30		E	3-709
Glaziovine	308	3.74		EB	6-333
Protopine methiodide	308	4.0		E	2-661
Elliptinine	308	4.24		EH	4-824
Demethylaspidospermine	307	3.97		B	5-112
8-Cevine	305	1.28	250	E	2-777
Pyroxonine	305	1.64		M	4-944
Anhydrolycoxonine	305	1.85		U	4-975

<u>COMPOUND</u>	<u>A_{max}</u>	<u>Log E</u>	<u>Sh</u>	<u>Solv</u>	<u>Ref.</u>
Dioxojulolidine, 1, 6	305	3.5	250	E	3-340
a-Amanitine	305	3.9	240	W	1-1141
Isoaureothamine	305	4.55		E	3-877
Vasicine	304	3.66		E	2-259
Neodeoxyvomisine	303	3.7		U	1-944
Dihydrojervine, N-Acetyl	300	1.5		E	1-1064
Strychnospermine, Deacetyl	300	3.56	242	E	2-641
Rubreserine	300	3.97		W	1-528
Multiflorine	300	4.14		Cy	4-587
Metathebainone	300	4.3	345	U	3-707
Naepaine	299	4.32		U	4-537
Thiobinupharidine	298	3.04		E	5-124
Morphine	298	3.41		12	2-534
Erysodine	298	3.7	240	B	1-778
Morphinone	297	3.43		EB	3-641
Crinamine	297	3.71	237b	E	2-534
Lycorine	297	3.7	237	E	5-95
Hydrastine	297	4.04		E	3-821
Cevadine	296	1.84		E	5-73
Haemanthamine	296	3.73		E	5-95
Miyaconitine	295	1.6		E	4-967
Dihydrojervine	295	1.74		E	1-1035
Epicrinine	295	3.47	237	E	4-632
Apoerythraline HBr	295	3.74	238	W	5-90
Toxiferine I Chloride	295	4.3		W	1-868
Erythratine	294	3.63		E	5-90
Miyaconinone	294	2.6		E	4-902
Caranine	294b	3.68	234	E	2-498
Apoheanthidine	294	3.70	240	E	4-624
Hemanthamine	294	3.75	240	U	4-624
Jaborandine	294	4.52		E	1-789
Cevadine, Diacetyl	293	1.6		E	1-1131
Cevadine	293	2.1		E	1-1103
Dihydrohydrastinine, 1, 2	293	3.70		U	1-392
Lycorine	293	3.72		E	2-498
Ibogaine	293	3.9		E	3-793
Protopine	293	3.93		E	2-777
Lycorine, Methyl Ether	292	3.67		E	4-684
Lycorine	292	3.66	234b	E	3-594
Dihydrocaranine, beta	292	3.67	233	E	3-602
Phalloidine	292	4.08		W	2-851
d-Tubocurarine Chloride	292	4.09		B	1-1137
Litserisine	291	3.54	240	E	6-335
Tetrahydroerythraline	291	3.65		EH	5-90
a-Dihydrocaranine	291	3.67	233	E	3-602
Isocaranine	291	3.67		E	4-632
Raunescine	291	4.05		M	5-110
Miyaconitone	290	2.6		E	4-970
Napellonine	290	2.6		U	3-889
Codeine	290	3.4	240	E	2-573
Gelsemicine	290	3.4		E	2-641
Narcotine	290	3.5		8	2-693
Tetrahydromecambrine	290	3.58	240	E	6-332
Apogalanthamine HBr	290	3.6		E	3-594
Tetrahydroerythraline	290	3.6		H	1-782

<u>COMPOUND</u>	<u>A_{max}</u>	<u>Log E</u>	<u>Sh</u>	<u>Solv</u>	<u>Ref.</u>
2-Epilycorine	290	3.67		E	4-632
Protopine Methiodide	290	3.8	325	E	2-661
Protopine Hydriodide	290	3.8	330,318	E	2-631
Protopine	290	3.9	225	E	2-631
Protopine	290	3.9	230	E	2-631
Raupine	290	4.0	310,230	M	2-605
Swietenine	288	1.7		E	2-579
Ambelline	288	3.14		E	2-573
Crinamidine	288	3.19		E	5-95
Undulatine	288	3.20		E	4-735
Powelline	288	3.23		E	4-684
Codeine, 6-Methyl Ether	288	3.21		U	4-778
Galanthamine	288	3.41		E	3-657
Litserisine, N,O-Diacetate	288	3.55	240	E	6-335
Glaziovine	288	3.57		E	6-333
Trilobine	288	3.72		M	1-1129
Melinonine Chloride	288	3.77		E	5-110
α -Fagarine	288	3.8	233	E	1-908
Rotundine	288	3.8		E	5-82
Pavine	288	3.94	225	E	2-637
Nicotyrine	288	3.99		E	4-275
Morphine 6-Acetate	287	3.17		E	2-604
Morphine	287	3.2	236 210	E	3-650
Morphine Acetate	287	3.2	235	E	3-745
Epipowelline	287	3.21		E	4-684
Herbowdine	287	3.21		E	5-95
Dihydrooxopowelline	287	3.22		E	4-684
Falcatine	287	3.23		E	2-534
Dihydropowelline	287	3.25		E	4-690
Buphanidrine	287	3.29		U	5-95
Dihydropronuciferine I	287	3.37		E	6-333
Narcissamine	287	3.38		E	3-602
Xylopinine	287	3.91	228	E	5-94
Rodiasine	287	3.95		U	5-82
Argemonine	287	4.01		E	5-75
Isoprotoverine	286	1.6		E	1-1037
Morphine	286	3.18		2-8	2-534
Codeine	286	3.19	236	E	3-706
Morphine	286	3.2	230	H	3-650
6-Acetylcodeine	286	3.21		E	4-823
Dihydrocodeine	286	3.23		E	4-739
Ethylmorphine	286	3.23		E	2-606
Benzylmorphine	286	3.3	240 210	E	3-942
Tetrahydroglaziovine	286	3.42		E	5-89
Micranthine	286	3.73		M	1-1115
Reticuline	285	--		E	5-83
Kriginamine	285 ^b	3.14		E	5-95
Buphanamine	285	3.18		E	5-95
Morphine HCl	285	3.19	232	W	5-83
N-Allylnormorphine HCl	285	3.18		W	2-603
O,O-Dimethylapogalanthamine	285	3.2		E	3-706
Deoxycodine	285	3.2		E	1-778
Dihydromorphine	285	3.2	230	E	3-657
Ethylmorphine	285	3.2	240	E	3-750
Morphine N-Oxide	285	3.21		W	2-534

<u>COMPOUND</u>	<u>A_{Max}</u>	<u>Log E</u>	<u>Sh</u>	<u>Solv</u>	<u>Ref.</u>
Buphanitine	285	3.23		U	5-95
Norcodeine	285	3.34	236	E	4-684
Amuroline	285	3.37		M	6-335
Dihydrocotarnine	285	3.38		U	4-419
N-Methyloreoline	285	3.48		M	6-335
Lycorenine	285	3.51		E	5-95
Vasicine HCl	285	3.51		E	2-259
Deoxylycorenine	285	3.52		E	2-576
Oreoline Methiodide	285	3.58		M	6-335
Methylpseudolycorine	285	3.58		E	3-657
Lophocerine Methyl Ether	285	3.59		E	5-82
Ocotine	285	3.68		U	5-82
Discreatamine	285	3.77	228	E	5-95
Discretinine	285	3.77	228	E	5-94
Emetine	285	3.8	360 235	E	4-1051
Narcotine	285	3.8		12	2-693
Oxyacanthine	285	3.84		M	1-1133
Methylpseudolycorine	285	3.85		E	5-95
Thebaine	285	3.87	226	E	5-83
Thebaine	285	3.87	235	E	2-603
Aromoline	285	3.88		M	5-82
Daphnandrine	285	3.91		M	5-82
Daphnoline	285	3.93		M	5-82
Thebaine	285	3.95		H	2-603
b-Dihydrothebaine	285	4.0		E	1-824
Lambertine	285	4.45		E	2-631
Miyaconinone	284	1.2		E	4-902
Cevagenine	284	2.1		E	2-777
Tetrahydroneonine	284 ^b	3.12	240	E	3-713
Neopine	284	3.17	299	W	5-83
Codeine	284	3.2	235	H	3-706
b-Codeine HBr	284	3.2	232	H	3-707
Ethylmorphine HCl	284	3.21		W	2-606
Galanthine	284	3.41		E	3-713
Narcissidine	284	3.53	227	E	4-740
Canadine Methochloride	284	3.70		W	3-827
Tetrahydroerysodine	284	3.71		EH	5-90
Pilocereine	284	3.72		E	2-814
Pilocereidine	284	3.72		E	5-82
Laudanine	284	3.78		E	4-828
Pseudocodamine	284	3.78		E	4-828
Pilocereine Acetate	284	3.84		E	2-833
Sepeerine	284	3.79		E	5-82
Repandine	284	3.83		M	5-82
Rodiasine HCl	284	3.84		E	5-82
N-Acetylxylopine	284	4.31		E	4-811
Dihydrohydroxycodoinone	283	3.09	230	E	2-573
Dihydromorphinone	283	3.09	230	E	2-534
Dihydrocodeinone	283	3.10	230	E	2-573
Neopinone	283	3.18		E	2-568
Pholcodine	283	3.22		W	4-936
Dihydrogalanthine	283	3.53		E	3-716
Laudanine	283	3.83	224	E	5-83
Thebaine	283	3.88		E	3-745
Alloychimbone	283	3.91		E	4-775

<u>COMPOUND</u>	<u>A_{max}</u>	<u>Log E</u>	<u>Sh</u>	<u>Solv</u>	<u>Ref.</u>
Netropsinine	283	4.33		H	3-543
Apodehydroconessine	283	4.36		E	4-943
Morphine 3-Acetate	282	3.31		E	2-604
Pluviine	282	3.59		E	3-657
Discretine	282	3.77	228	E	5-94
Laudanosine	282	3.78	225	E	5-83
Berbamine Ethyl Ether	282	3.8		M	3-1122
Deoxydauricine	282	3.8		U	3-1120
Tenuipine	282	3.82		E	2-859
Berbamine Methyl Ether	282	3.9		U	3-1120
Mimosine	282	4.28		W	5-112
Cevagenine	281	1.55		E	2-777
Heroin	281	3.26	230	E	2-662
Tetrahydrohomolycorine	281	3.45		E	2-579
α -Cevine	280	0.5		E	5-73
Annotoxine	280	1.35		E	1-1091
Dihydrocodeinone	280	3.2	240	E	2-573
Dihydrohydroxycodeinone	280	3.1	230	H	3-707
Dihydromorphinone	280	3.1	225	H	3-650
Morphinone	280	3.15		E	2-641
Tetrahydrocasimiroedine	280	3.38		E	5-75
Dihydrothebainone	280	3.4		U	2-577
Laudanosine HCl	280	3.51		E	5-83
Taxine B	280	3.8	350	M	4-1089
Gramine	280	3.79		E	5-110
Taxine B	280	3.6		H	4-1089
1-Methylaudanosine	280	3.81		U	4-910
d-Tubocurarine Chloride	280	3.96		E	1-1137
d-Tubocurarine Chloride	280	3.92		H	1-1137
Mimosine	280	3.9		H	1-208
Cinchonamine	280	4.0	230	E	1-825
Chondodendrine Dimethyl Ether	280	4.20		Ch	5-82
Casimiroedine	280	4.30		E	3-837
Neocevagenine	279	1.66		E	2-777
Isogerminine	278	1.9		E	1-1037
O-Methylthalicberine	278	3.65		M	7-32
Homarine	278	3.7		E	5-80
Belladine	278	3.70	278	E	3-755
Yohimbone	278	3.91		E	1-821
Ethylnarceine HCl	278	4.19	230	W	2-747
Allocolchicine	278	5.14		B	5-77
Albomaculine, Tetrahydro	277b	2.85	230	E	3-758
Narceine HCl	277	4.19		W	2-714
α -Germinine	276	0.6		E	1-1037
α -Cevine HCl	276	0.8		E	1-1037
Cassaine	276	1.52		E	5-72
Leonurine	276	4.0		M	5-72
Pyraconine	275	1.66		M	4-1040
b-Cevine	275	2.4		E	1-1037
Ecgonine	275	3.45		E	2-192
Normavacurine	275	3.9		E	2-604
Toxiferine III Chloride	275	3.9		W	1-878
Dehydrocevagenine	275	4.03		E	3-1009
Vicine	274	4.21		H	2-238
Fabianine	273	3.8		E	5-99

<u>COMPOUND</u>	<u>A_{max}</u>	<u>Log E</u>	<u>Sh</u>	<u>Solv</u>	<u>Ref.</u>
Homarine	273	3.8		B	5-80
Apomorphine HCl	273	4.22	306	W	4-678
Kisantine	273	3.80	296	U	4-869
Lycodine	272	3.9		MH	4-696
Deserpidine	272	4.25		E	2-831
Canescine	272	4.26	290	E	2-831
Stephanine	272	4.28		U	5-88
Apomorphine Dimethyl Ether	271	3.61		U	5-88
11-Demethoxyreserpine	271	4.25		E	2-831
Isodeserpidine	271	4.26		E	3-1080
Noraporphine	271	4.26		E	5-88
Raunescine	271	4.26		E	2-824
Cevagenine Orthoacetate	270	2.23		E	2-800
Dihydroveratramine	270	2.8		E	1-1034
Mescaline	270	3.2	225	E	3-311
Dihydrogentianine	270	3.4		E	3-247
Narceine	270	3.98		E	5-93
Normavacurine	270	4.6		EH	2-604
Isoraunescine	270	4.24		E	2-824
Aporphine HCl	270	4.27	282	E	5-88
Dehydrodelpheline	269	2.21		E	3-974
Trichocereine	269	2.88		W	2-377
Mescaline Sulfate	269	3.17		EW	2-276
Ryanodine	269	4.19	230	E	1-1002
Veratramine	268	2.8		E	1-1-32
Reserpine	268	3.15		Ch	4-1088
Reserpine	268	3.95		E	2-841
Muscopyridine	267	3.61		E	5-80
Lycodine	267	3.72	277	M	5-80
Simonenine	266	3.72	230	H	3.750
Trigonelline	265	3.6	272	E	2-98
Staphisine	265	4.0		E	1-951
Nebularine	263	3.8	246	W	2-223
Dihydronicotyrine	262	3.46		E	4-288
Nicotine	262	3.47		E	4-298
Nornicotine	262	3.47		E	1-273
Anatabine	262	3.53		E	4-288
Gelsemine	262	3.9		EB	1-864
Anabasine	261	3.46		E	4-298
a-Cevine	260	0.8		E	3-1012
Dehydrodelpheline	260	2.30		H	3-974
Vellosine	260	4.1	290	U	3-911
Deoxyvomocine	260	3.9		U	1-944
Strychnine	260	4.2	290	E	2-661
Veratridine	260	4.3		E	1-1131
Limocrocine	260	4.7		B	2-760
Nicotine	259	3.74		H	1-348
Vallesine	259	4.11		E	4-869
Gelsedine	258	3.8	280	E	2-607
Ergothioneine	258	4.16		2-10	4-247
Vomilenine	257	3.74		E	5-112
Spegazzinine	257	3.94	285	E	3-838
Aspidospermine	257	4.00	289	E	3-886
Cylindrocarpidine	256	4.06		E	5-112

<u>COMPOUND</u>	<u>A_{max}</u>	<u>Log E</u>	<u>Sh</u>	<u>Solv</u>	<u>Ref</u>
Hetisine	255	0.8		E	1-878
α-Obскурine	255	3.75		E	2-543
Dichotamine	255	3.36	255	E	4-903
Strychnine	255	4.1	282	EW	3-822
O-Methylspegazzinine	254	3.96	285b	E	3-886
Diaboline HCl	253	4.06	287	E	5-112
Cevine (gamma)	252	1.4		E	2-777
Veratrobazine	252	2.14		E	1-990
Gelsemine	252	3.94	283	E	1-864
Spegazzinine, Diacetyl	252	4.00	281	E	3-968
Rauvomitine	252	4.19		M	5-109
Vallesine	250	3.94		E	1-874
Jervine	250	4.18		E	3-1008
+ Aphyllidine	248	4.1		U	5-75
Neostrychnine	246	4.3	290	Et	3-822
Aphyllidine	245	4.1		E	4-587
Corynoxine	245	4.21	280	B	3-878
Dihydrocorynoxine	245	4.2	280	B	2-882
Lobelanine, Cis	245	4.40	326 282	MH	4-902
Gelsedine	244	3.6	280	EB	2-607
Corynoxine	244	4.25		E	5-111
Corynoxine	244	4.25		E	5-111
Iserhyncophylline	244	4.25		E	5-111
Formosanine	244	4.21		E	5-111
Mitraphylline	243	4.22	280	E	4-860
Tetrahydroaureothamine	243	4.24		E	3-885
Apo-α-Hydroxyconessine	240	3.72		E	4-945
(-)-Aphyllidine	240	4.07		E	5-75
Argyrolobine	239	3.97		E	5-75
Papaverine	239	4.81		11	2-634
Lyconnotine	235	4.3		E	5-80
Jacozine	233	3.24		E	5-74
Gelsemine, N-Acetyl	233	4.0		E	1-944
Pseudomorphine	231	4.56	285 257	EH	5-83
Delphinine	230	4.1		E	1-1110
Iboluteine	230	4.30		E	3-793
Discretine	228	3.92		E	4-823
Tacomamine	226	4.10		E	5-80
Gentianine	226	4.38	280 245	E	3-235
Cassamine	225	4.2		E	5-72
Jacozine	223	3.24		E	3-713
Cassarne	223	4.26		E	5-72
Erythroplamine	222	4.2		E	1-1005
Senecionine	221	3.82		E	3-716
Veracevine	220	3.0		U	3-1012
Melinonine F HCl	220	4.2	250	B	3-877

COMPOUNDS WITH SINGLE MAXIMUM BELOW 220

Rosmarinine	219	3.78		W	5-74
Retrorsine	218	3.85		E	5-74
Dioscorine	217	4.20		U	5-73
α-Isosparteine	216	3.79		E	5-75
Uscharamine	216	-	307	U	4-1074
Senecionine	215	3.38		E	2-579

<u>COMPOUND</u>	<u>A_{max}</u>	<u>Log E</u>	<u>Sh</u>	<u>Solv</u>	<u>Ref</u>
Norlupinane	215	3.49		Et	2-193
Spartoidine	215	4.00		E	5-74
Sparteine	214	3.71		E	5-113
Arecoline	214	4.02		E	5-80
Delpheline	213	3.20		E	3-975
Lycoctonine	213	3.2		E	1-1005
Deoxynupharidine	212	3.9		E	3-550
Oxysparteine	212	4.0		E	5-75
Integerrimine	212	4.04		E	2-579
Imidazole	211	3.70		E	5-75
α -Diplospartyrine	210	4.40		Et	3-1061
Usaramoensine	203	4.10		E	20579

TABLE 2: TWO MAXIMA

COMPOUND	A _{max}		Log E		Sh		Solv	Ref
Dihydroisoquinamine	400	240	3.5	4.4	255		E	1-829
Melicopidine	399	277	3.89	4.66	317		E	5-105
Evoxanthine	399	274	3.95	4.67	385	322		
					239		M	5-105
Episoquinamine	395	241	3.5	4.2	255		E	1-826
Isoquinamine	393	240	3.6	4.4	255		E	1-826
Isopolystictine, Diacetyl	393	225	4.24	4.38	260		E	3-677
Pseudoakuummagine	391	245	3.4	4.0			E	1-946
Yobyron	388	292	3.9	4.3			E	1-800
Aspelacine	380	280	4.04	4.75	360		Ch	1-1057
Harmaline	380	260	4.49	4.07			H	4-860
Hortiamine	376	320	4.24	4.17			E	5-111
N-Methylbalfordinium Cl	376	320	4.24	4.17			E	5-101
Methylperloline	375	280	3.88	4.15	320	306		
					250	246		
					240		B	5-124
Thalifendine Iodide	373	287	4.41	4.53			MB	7-32
Germine	372	345	4.00	3.90			B	4-976
Prodigosine	371	296	3.89	4.09	382	275	3	2-640
N-Methylaporubropunctatamine	370	241	3.78	4.51	275		E	4-868
2-Hydroxyquinidine	368	232	3.8	4.5	270	245	H	1-871
Lapazine	362	305	3.69	4.61	280		Ch	1-897
Flavocoryline HCl	360	290	4.3	4.4			B	2-597
Jervine, O-Acetyl	360	252	1.72	4.17			E	3-1043
Jervine	360	250	1.88	4.2			E	5-73
Colchicine	360	250	4.58	3.78			7	1-946
Perlolidine	360	238	3.84	4.43	328	282		
					232		B	5-124
Colchicine	357	249	3.4	3.6			B	2-662
Dehydrodeserpidine Cl	355	252	4.36	4.19	263b		M	3-1080
Colchicine	355	246	4.22	4.49	234		E	5-77
Dehydroalloyohimbine Cl	355	246	4.31	3.95			E	3-821
Dehydroapoyohimbine HCl	355	246	4.31	3.95			E	3-827
2-Demethylcolchicine	355	245	4.13	4.37	270		E	2-662
Demecolcine	355	245	4.24	4.55			E	2-664
N-Methyldemecolcine	355	244	4.25	4.54			E	2-698
Lunarine	355	224	4.44	4.46			B	4-990
Lunarine	354	236	4.39	4.38			H	4-990
3-Demethylcolchicine	353	238	4.23	4.5			E	5-77
Cornigerine	353	238	4.23	4.5			E	5-77
Sempervirine	352	342	4.46	4.36			E	2-592
Colchicine	351	244	4.28	4.51			E	1-908
Colchicine, O-Ethyl	351	244	4.21	4.45	233		E	1-964
Colchicine	351	243	4.22	4.47			E	1-946
Berberine HCl	350	270	4.58	4.03			E	3-777
Cotarnoline	350	250	4.1	3.9	290		B	4-285
Dehydroyohimbine	350	250	4.4	4.1			3	4-860
Colchicine	350	247	4.20	4.45			E	1-946
Harmalan	350	245	4.28	4.04			H	4-397
Berberine	348	263	4.3	4.7			E	4-811
Dihydroquinidine	347	310	3.79	3.65			2	1-874

<u>COMPOUND</u>	<u>A_{max}</u>		<u>Log E</u>		<u>Sh</u>	<u>Solv</u>	<u>Ref</u>
Alkaloid A	347	260	3.85	4.53		M	7-32
Isoacronycidine	347	253	4.17	4.09		E	1-621
Quinine	347	252	3.74	4.44	317	H	2-638
Acronycidine	346	256	3.96	4.88		E	1-621
Pleurospermine	345	245	4.14	3.69		EB	4-532
Isodemecolcine	345	245	4.25	4.54		E	2-664
Apo-b-Erythroidine	345	241	3.5	4.4	270	E	2-449
Sclerotioramine	345	230	4.60	4.14		E	3-827
Isocolchicine	343	247	4.30	4.54		E	1-946
Dihydroapoporubropunctatamine	343	238	3.69	4.69		E	4-832
Isoyobyrine HCl	342	235	4.24	4.59		E	2-592
Isokokusagine	339	254	3.98	4.39	345 304 273 243	E	5-73
a-Lumicolchicine	338	286	3.5	4.4		U	1-946
Alkaloid A	338	284	3.57	4.49		MH	7-32
Sinapine Iodide	333	223	4.27	4.3	240	E	5-72
Lunine	332	257	3.86	4.61		EH	5-100
Cotarnine	331	255	3.93	4.08		H	2-320
Toddaline	331	250	3.94	4.27		E	3-816
Callichiline	330	300	3.91	3.85		E	4-899
Melinonine F HCl	330	280	4.0	4.7		E	3-877
Protoverine	330	260	0.5	1.0		E	1-1037
Cotarnoline	330	250	4.1	3.9		H	4-285
Serpentine	329	284	4.05	4.69		E	5-111
Nordictamnine	329	245	4.17	4.65		E	3-276
Thalifoline	329	238	3.66	4.41		EB	7-32
Norushinsunine	328	275	3.49	4.23		U	5-88
Vincamajordine	328	252	3.70	3.96		EB	2-696
Leonurine	326	239	4.7	4.3		B	5-72
Dehydrocinchonamine	325	267	3.8	3.9		E	1-821
Corynanthyrine	325	240	4.5	4.3		E	2-604
Haplophytine	325	240	4.2	4.6	265	EB	4-1019
Cotarnine	324	249	3.6	3.8		EH	3-359
Bufotenine	323	276	3.65	3.74		B	2-323
Sarpagine	322	276	3.59	3.88		EB	3-746
Anibine	322	228	3.95	4.22	254	EH	1-280
Cotarnine	322	245	3.9	4.1		H	3-359
Cotarnine	322	245	3.9	4.1	272	W	3-359
Ushinsunine	321	274	3.51	4.21		U	5-88
Germinine	320	285	4.11	3.85		E	4-976
O-Methylpilocerine	320	282	2.05	3.68		E	2-825
Dehydrobrucidine	320	260	3.8	4.0		E	2-712
Brucidine	320	260	3.8	4.0		E	2-714
Alstyrine	320	248	4.37	4.3		E	1-821
Jervine Acetate	320	243	1.52	3.92		E	2-799
Isovobasine	320	237	4.27	4.18		E	5-111
13-Oxoprotopine	317	288	3.93	3.97		E	3-774
Strychnidine	317	264	3.55	4.12		E	5-109
Dihydroiboluteine B	317	243	3.45	3.95		M	4-833
Dihydroamuronine	316	285	2.96	3.33		E	6-334
Michepressine Iodide	316	273	3.60	4.14		U	5-88
Eduline	316	250	4.19	4.59		E	3-632
Nornicotyrine	316	241	4.21	3.97		H	5-80
Vobasine	316	239	4.27	4.20		E	5-111
Eseroline	315	242	3.5	4.0		7	5-109

<u>COMPOUND</u>	<u>A_{max}</u>		<u>Log E</u>		<u>Sh</u>	<u>Solv</u>	<u>Ref</u>
Ricinine	315	257	3.88	3.54		U	5-80
Dihydroibololuteine A	315	243	3.42	3.95	332	M	4-833
Penniclavine	315	240	3.93	4.29		E	2-499
Harmalan	315	240	4.06	4.09		B	4-397
Voacafrine HCl	315	240	4.32	4.23		M	4-904
b-Obscurine	315	232	3.89	3.98		E	2-541
Numismine	315	225	4.30	4.40		E	4-993
Anibine	315	229	4.09	4.32		E	5-80
Huntercorymine	314	257	3.59	4.06		E	5-109
Isosetoclavine	314	243	---	---		U	7-317
Apomorphine HCl	313	292	3.4	3.9		H	4-678
Schizogyne	313	267	3.75	3.9		E	5-111
Setoclavine	313	243	4.04	4.38		E	3-596
Isopenniclavine	313	242	3.94	4.31		E	3-596
Selagine	313	231	3.92	4.04		E	5-80
Lunarine	312	292	4.2	4.3		U	4-990
Vincemajoridine	312	245	3.66	3.96		E	2-696
Eseramine	311	256	4.11	3.42		E	5-109
Folicanthine	311	254	3.83	4.25		E	5-109
Physostigmine	311	252	3.44	4.08		E	5-109
Glycosmicine	311	244	3.64	3.97		E	5-118
Narcotine	310	290	3.7	3.6	235	E	3-873
Pilocereine Methiodide	310	284	2.5	3.65		E	5-82
Nantenine	310	284	4.1	4.0		U	5-88
Dicentrine	310	282	4.3	4.2		U	5-88
Sarpagine	310	255	3.6	3.9	298	E	2-876
Physovenine	310	252	3.51	4.12		E	5-109
Calycanthine	310	252	4.0	4.4	290 270	U	3-882
Akuammine	310	245	3.5	3.9		E	2-698
Nicotyrine	310	244	4.03	3.94		H	5-95
Pyraconine HCl	310	220	1.99	4.11		M	4-998
Corydine	309	270	3.82	4.15		E	5-88
Calycanthine	309	250	3.80	4.28		E	5-109
Aureothamine	309	241	4.41	4.24		E	3-877
Methylcytisine	309	234	3.90	3.80		M	5-75
Baptifoline	309	233	3.91	3.84		M	5-75
Dehydroyohimbine	309	225	4.4	4.5	320	10	4-860
Cocsarmine Iodide	308	282	4.22	4.11		U	5-88
Calycanthidine	308	250	3.80	4.28		E	5-109
Akuammine HCl	308	242	3.5	4.1		W	1-948
Hydrastinine	307	250	3.8	4.3		H	3-300
Apoquinamine	307	236	4.3	4.2		E	1-821
C-Calebassine Cl	306	259	3.74	4.35		E	5-112
Cytisine	306	235	4.0	3.9		M	3-303
Pseudomorphine	306	230	3.96	4.56		B	5-83
Laurelliptine	305	280	3.76	3.70		E	5-88
Corydine	305	270	3.8	4.1		E	4-823
a-Cevine	305	255	2.4	2.2		E	3-1012
Isobalfourdine	305	253	3.87	4.65		MH	5-100
Rubropunctatamine	305	252	4.43	4.16	382	E	4-858
Dihydrojervine	305	250	1.5	2.7		E	1-1035
Folicanthine	305	250	3.8	4.3		E	3-948
Seredine	305	227	3.95	4.45		M	5-111
Caranine Acetate	304	263	3.76	4.08		E	3-700
Vindoline	304	250	3.57	3.74		E	4-990
Vindorosine	304	249	3.48	3.99		E	5-109

<u>COMPOUND</u>	<u>A_{max}</u>		<u>Log E</u>		<u>Sh</u>	<u>Solv</u>	<u>Ref</u>
Isoreserpine	304	229	4.02	4.56		E	2-714
Ibogaline	304	228	4.01	4.43		E	4-869
Conopharyngine	304	225	4.05	4.47		M	4-936
Pukatein HCl	303	272	3.95	4.10		U	5-88
Melicopine	303	270	4.13	4.70	388 252	E	5-105
Brucine	303	264	3.86	4.01		E	1-964
1,2,3,4-Tetrahydroiso- quinoline	303	248	3.48	3.86		E	5-99
Quinamine	303	244	3.4	3.9		E	1-826
2-Hydroxynicotine	303	228	3.88	3.84		H	4-298
Ocoteine	302	283	4.25	4.25		E	3-827
Thalicarpine	302	282	4.11	4.23		M	5-88
Glaucine	302	281	4.16	4.18		E	5-88
Bufotenine	302	278	3.8	3.9		E	2-323
Isothebaine Methyl Ether	302	273	3.91	4.1		U	5-88
Pseudocorydine	302	272	3.66	4.04		E	5-88
Tetrahydronorfluorocurine	302	272	3.4	3.9		E	2-610
Tetrahydrofluorocurarine Cl	302	246	3.50	3.95		E	4-832
Chimonanthine	302	245	3.78	4.15		E	5-109
Dihydroquinamine	302	244	3.5	3.9		E	1-829
Rescinamine	302	229	4.39	4.73		E	2-851
Reserpine	302	228	4.41	4.73		M	2-851
Rescidine	302	228	4.41	4.74		E	5-111
Seredine	302	225	4.0	4.4		E	2-717
Geissoschizoline	301	247	3.59	3.93		E	4-783
Netropsinine Diacetate	301	240	4.23	4.14		E	3-753
Rauwolfine	300	275	3.8	4.0		E	2-641
Morphothebaine	300	273	3.87	4.2		E	5-105
Melicopicine	300	269	3.82	4.73		E	5-88
O-Methylhaplophytine	300	265	3.43	3.98		U	4-1037
Norcurarine	300	264	4.14	4.42		E	3-1120
Bisnortetrahydrocurarine	300	261	4.07	4.37		U	5-112
(-) Lunacrine	300	257	3.89	4.59	320 253	H	4-641
C-Alkaloid R, chloride	300	255	3.3	3.8		EB	3-835
Dihydroerysodine	300	253	3.68	3.96		EB	5-90
Calebassine Cl	300	252	3.2	3.8		W	1-865
Dihydroerysodine	300	252	3.7	4.0		H	1-782
Cuspareine	300	250	3.5	4.1	275	Et	3-792
Folicanthine	300	248	--	4.2		EH	3-948
Tetrahydroerysodine	300	247	3.7	3.9		B	1-784
Vindolinine	300	245	3.37	3.83		E	4-860
Deacetyldiaboline	300	245	3.4	3.8		E	2-607
Pereirine	300	245	3.47	3.93		E	4-794
Epiquinamine	300	243	3.3	3.7		E	1-826
Balfourodine	299	257	3.94	4.58	315	MH	4-641
Raupine	299	255	3.8	3.9		E	2-876
Pleiocarpine	299	253	3.51	3.95		E	5-110
Tetrahydroglaziovine	299	253	3.65	3.79		EB	5-89
Quinamine	299	245	3.4	4.0		E	1-826
Isoreserpine	299	229	3.83	4.69		E	2-696
Tabernanthine	299	228	3.76	4.53		M	5-89
Isovoacangine	299	228	3.90	4.57	270	M	4-907
Morphine	299	226	3.44	4.04	248	B	5-88

<u>COMPOUND</u>	<u>Amax</u>		<u>Log E</u>		<u>Sh</u>	<u>Solv</u>	<u>Ref</u>
Raunitidine	298	288	3.75	4.61		E	5-109
Calycanthidine	298	243	3.70	4.17		H	5-109
Tetraphylline	298	229	3.81	4.65		E	3-878
Rauwanine	298	227	3.96	4.52		E	5-111
Ibogaine	298	226	3.93	4.39		M	5-110
b-Colubrine	297	262	3.80	4.40		U	4-900
a-Colubrine	297	255	3.77	4.03		U	4-900
Pleiocarpinilam	297	253	3.46	3.98		E	5-109
Montanine	297	244	3.71	3.65		E	2-534
Natelensine	297	240	3.71	3.51		E	2-534
Bufotenine	296	277	3.67	3.74		E	2-323
Reserpine	296	268	4.02	4.22		E	3-1086
C-Alkaloïd F Chloride	296	249	3.45	4.05		W	5-112
Coccinine	296	244	3.64	3.58		E	2-534
Crinine	296	240	3.72	3.52		E	2-498
Reserpinine	296	228	3.81	4.64		M	5-111
Tetrahydroalstoniline	296	228	3.92	4.68		M	5-111
Oxocrinine	296	226	3.63	4.45		E	4-623
Epicinchonamine	295	278	3.8	3.8	230	E	1-825
Reserpine, N-Oxide	295	269	4.04	4.22		E	3-1088
C-Curarine Chloride	295	260	3.97	4.34		W	5-112
Desacetylaspidospermine	295	250	3.34	3.80		E	5-109
Vincamedine	295	250	3.45	3.92		U	3-944
Ajmalidine	295	247	3.49	3.94		E	2-639
Kopsinine	295	245	3.45	3.97		E	2-665
Tazettine	295	242	3.65	3.69		E	2-573
Criwelline	295	240	3.68	3.76		E	4-735
Crinidine	295	240	3.70	3.50		E	2-498
Buphanisine	295	239	3.75	3.50		E	2-534
Morphine	295	239	3.75	3.50		E	2-534
Echitamine	295	235	3.55	3.93		E	4-909
6-Hydroxynicotine	295	232	3.75	4.09		H	4-298
Voacamine	295	225	4.16	4.59		E	4-1128
d-Tubocurarine HI	295	225	4.22	4.76		B	4-1108
Raujmidine	294	269	4.05	4.24		E	3-1088
Desmethyrrhoeadine	294	267	4.0	4.0		M	4-898
Vanilloylzygadenine	294	264	3.83	4.07		E	2-852
Tetraphyllicine	294	250	3.60	4.07		E	3-788
Kopsinilam	294	244	3.45	3.87		E	5-109
Manthine	294	243	3.71	3.64		E	2-573
Epihemananthidine	294	240	3.66	3.54		E	4-684
Chimonanthine	294	240	3.72	4.14		H	5-109
Manthidine	294	240	3.72	3.63		E	2-573
Dihydrooxocrinine	294	237	3.72	3.56		E	4-632
Rflaimine	294	235	4.10	4.59		MH	5-100
Mecambrine	294	231	3.70	4.5	315	M	6-332
Tetraphylline	294	230	3.8	4.7	275	E	2-696
Nornicotyrine	294	229	4.19	3.79		E	5-80
Pseudoreserpine	293	266	3.99	4.23		M	5-111
Veratroylzygadenine	293	262	3.85	4.13		E	2-855
Demethylaspidospermine	293	260	3.32	3.73		U	4-869
Dihydrovomalidine	293	257	3.4	3.9		U	3-838
Vomalidine	293	257	3.4	3.9		U	3-832
Strychnospermine	293	251	3.66	3.96		E	2-698
Ajmaline	293	249	3.45	3.93		E	2-641

<u>COMPOUND</u>	<u>A_{max}</u>		<u>Log E</u>		<u>Sh</u>	<u>Solv</u>	<u>Ref</u>
Tazettamine	293	242	3.69	3.57		U	2-573
Hemanthidine	293	241	3.62	3.46		E	4-684
Dihydroapohemanthidine	293	241	3.66	3.57		E	4-632
Norchelidonine	293	240	3.9	3.9		E	4-762
1-Acetyllycorine	293	236	3.68	3.59		E	5-95
Dihydrocaranine Acetate	293	235	3.68	3.60		E	3-707
Voacamidine	293	228	4.32	4.74		M	3-1145
Cinchonamine	292	282	4.0	4.0		E	1-825
Dihydrocinchonamine	292	282	4.0	4.0		E	1-829
Brucine	292	274	3.9	4.1		H	4-929
C-Alkaloid G Dichloride	292	264	3.1	3.47		W	5-112
Veratridine	292	262	4.28	4.49		E	3-1114
Caracurine V Chloride	292	256	3.38	3.91		M	5-109
Vomalidine	292	253	3.38	3.91		M	5-109
Rauwolfinine	292	249	3.48	3.94		E	2-610
Sandwicine	292	246	3.46	3.91		E	3-793
Fendleridine	292	242	3.48	3.86		E	5-109
Brunsvigine	292	242	3.69	3.61		U	4-632
Desoxycalebassine Chloride	292	240	3.5	4.0		H	4-1114
Rhoeaginine	292	240	4.0	3.9		M	4-812
Dihydromavacurine	292	239	3.7	4.2		E	2-640
Ibogamine	292	227	3.86	4.52		M	5-109
Tetrahydroserpentine	292	227	3.79	4.61		M	5-109
Cinchonamine	292	223	3.88	4.60		M	5-109
Raugustine	291	267	3.98	4.19		E	5-110
Vomicine	291	266	3.62	3.95		U	4-900
C-Alkaloid E Dichloride	291	264	3.6	3.84		W	5-112
Vincamajine	291	248	3.23	3.68		E	2-696
Caracurine II	291	246	3.73	4.22		E	5-109
Quebrachidine	291	242	3.47	3.81		E	5-109
Rhoeadine	291	242	3.96	4.01		M	3-821
Caranine	291	240	3.67	3.55		E	4-632
Corynantheine	291	227	3.79	4.64		M	5-109
Ajmalicine	291	226	3.81	4.65		M	5-109
Rauwolscine	291	226	3.78	4.55		M	5-110
Tetrahydroalstonine	291	226	3.83	4.64		M	5-110
Yohimbine	291	226	3.80	4.56		M	5-110
Tetrahydroharman	291	225	3.75	4.51		M	5-110
Gramine	290	282	3.7	3.8	275	E	1-402
Canescine	290	272	4.07	4.26		E	2-831
Geissoschizine	290	268	3.89	4.16		E	4-860
Protoveratrine	290	260	0.8	1.1		E	1-1141
Renoxidine	290	266	4.04	4.21		E	5-110
Vincal leukoblastine	290	259	4.15	4.21		E	5-110
Strichninine	290	257	3.53	4.20		U	4-856
C-Alkaloid A Chloride	290	250	3.40	4.05		W	5-112
Semperflorine	290	250	3.5	4.0		E	2-665
Tetraphyllicine	290	250	3.6	4.1		E	2-640
C-Alkaloid R Chloride	290	248	3.3	3.8		E	3-835
Neoajmaline HCl	290	246	3.5	4.0		E	2-641
Pseudoakuumigine	290	242	3.4	3.9		E	2-696
Erythramine	290	240	3.6	3.6		H	1-778
Calycotomine	290	240	3.65	3.49		U	4-418
Lycorine Acetate	290	240	3.70	3.60		E	3-700
Protopine HCl	290	240	3.9	3.9		E	2-631

<u>COMPOUND</u>	<u>A_{max}</u>		<u>Log E</u>		<u>Sh</u>	<u>Solv</u>	<u>Ref</u>
Erythraline	290	238	3.6	4.4		H	1-773
Dehydrolycorine	290	231	3.70	4.24		E	4-623
Erythraline	290	230	3.6	4.2		B	1-773
Kamassine	290	230	3.9	4.6		E	1-828
Ibogaine	290	227	3.98	4.45	308 297	M	4-829
Corynanthine	290	226	3.77	4.54		M	5-109
Serpine	290	226	3.80	4.55		M	5-109
Alloyohimbine	290	226	3.74	4.51		M	5-109
Epi-a-Yohimbine	290	225	3.77	4.48		M	5-110
Pseudoyohimbine	290	225	3.80	4.54		M	5-110
b-Yohimbine	290	225	3.80	4.57		M	5-110
Deserpidine	289	271	4.06	4.25		M	5-109
Recanescine	289	271	4.06	4.25		M	2-831
Spegazzinine	289	257	3.40	3.87		E	5-112
Isoapo-b-Erythroidine	289	256	4.0	4.2		E	2-450
Aspidofractine	289	253	3.64	4.07		E	5-110
isoajmaline HCl	289	246	3.4	3.9		E	2-641
Alloibogaine	289	229	3.94	4.39	305	E	4-829
N-Methylibogaine	289	226	3.93	4.39		E	4-869
Cryptocurine Chloride	288	270	3.7	3.8		E	3-797
Flindersiamine	288	253	4.17	4.72		MH	5-101
a-Colubrine	288	250	3.81	4.05		U	5-111
Dihydrosandwicine	288	246	3.45	3.90		E	3-797
Iboxygaine	288	228	4.0	4.46		E	4-830
Galanthamine	288	227	3.40	3.98		E	5-95
Arigeine	287	279	3.03	3.06		E-	3-707
Kopsingine	287	251	3.43	4.09		E	4-963
Ajmaline HCl	287	246	3.4	4.0		W	1-874
Ethylmorphine HCl	286	244	3.2	3.5		H	4-778
Cryptopine	286	234	3.77	4.03		H	2-662
Kopsamine	286	228	3.2	4.4	296 250	EH	2-746
Voacangarine	286	226	3.99	4.45	314 302	E	4-907
Distichine	285	260	3.15	2.49		U	3-745
Hemanthine	285	260	3.23	2.66		U	3-707
Spegazzinine	285	257	3.42	3.94		U	4-870
Aspidospermine	285	256	3.4	3.9		E	2-950
Gelsemine	285	252	3.2	3.9		E	1-864
Aspidospermine	285	240	3.4	3.8		E	2-886
Haplophytine	285	240	4.2	4.6		E	4-1019
Dihydrooerysodine	285	235	3.5	3.8		H	1-782
Erysodine	285	235	3.57	4.32		EH	5-90
Isoemetine	285	233	3.85	4.19		EH	4-1051
Tetrahydromavacurine	285	232	3.8	4.5		E	2-643
Tetrahydroerysotrine	285	231	3.6	4.0		EH	1-831
Neronine	285	228	3.85	4.41	310	E	3-700
Cularine	285	226	3.92	4.38		E	5-82
Amuronine	285	225	3.30	4.41		E	6-334
Voacangine	285	225	4.0	4.5		U	3-881
Coronaridine HCl	285	224	3.91	4.51		E	5-109
Voacryptine	285	224	3.98	4.46		U	4-904
Gelsemicine	285	220	3.5	4.4	295	E	2-641
Repandine	284	257	3.83	3.02		M	1-610
Rhynchophylline	284	245	3.2	4.3		E	1-948
Dehydroemetine	284	232	3.86	4.18		E	4-1050
Dehydroisoemetine	284	232	3.87	4.20		E	4-1050

<u>COMPOUND</u>	<u>A_{max}</u>	<u>Log E</u>	<u>Sh</u>	<u>Solv Ref</u>
Stepharine	284 231	3.48 4.44		E 6-333
Sarpagine Diacetate	284 231	3.83 4.45		U 3-909
Affinisine	284 227	3.83 4.57		E 5-109
Methylpseudolycorine	283 235	3.53 3.89		EH 5-95
Lycorenine	283 233	3.51 3.96		U 3-713
Emetine	283 230	3.87 4.23		EH 4-1051
Voachalotine	283 228	3.88 4.62		E 5-110
Dihydroculeine	283 220	3.90 4.60		E 3-714
Tetrahydroharman	282 275	3.9 3.9	290	E 1-467
Gelsemine	282 252	3.18 3.89		E 2-635
Pleiocarpine	282 245	3.44 4.15		E 5-110
C-Alkaloid D Chloride	282 242	3.20 3.78		W 5-109
Ibogamine	282 235	3.9 4.3		E 3-752
Pronuciferine	282 230	3.49 4.41		E 6-333
α -Fagarine HCl	282 230	3.7 4.0		H 1-943
Tetrahydroserpentine	282 230	3.9 4.7		E 1-912
Eburnamine	282 228	3.88 4.49		E 5-110
Mayumbine	282 227	3.87 4.57		E 1-910
Ibogamine	282 227	3.9 4.5		E 2-607
Vincaminorine	282 226	4.73 4.58		U 4-911
Rauniticine	282 226	3.86 4.61		E 5-110
Magnocurarine	282 225	3.62 4.12		E 5-83
Epi-3-corynanthine	282 224	3.83 4.48		E 5-110
Voacristine	282 223	3.98 4.46		E 5-110
Voacangarine	282 222	3.95 4.44		E 5-110
Spermostrychnine	281 252	3.67 4.33		E 4-864
Dihydrogelsemine	281 250	3.15 3.90		E 2-638
Oxycolchicine	281 234	2.5 3.24		E 5-77
Aricine	281 229	3.97 4.54		E 2-696
Capsaicin	281 227	3.40 3.85		E 5-72
Isoeburnamine	281 227	3.89 4.51		E 5-110
Alloyohimbane	281 227	4.01 4.53		E 1-825
Dihydrocorynantheine	281 226	3.88 4.64		E 5-109
Polyneuridine	281 226	3.83 4.53		E 5-110
Pseudoyohimbine	281 225	3.86 4.48		E 1-912
Protostephanine	281 220	3.79 4.55		M 5-124
Rhyncophylline	280 245	3.15 4.24		E 3-882
Kopsaporine	280 245	3.41 4.16		E 4-929
O-Methylhaplophytine	280 240	4.0 4.5	305	EB 4-1037
Sarpagine	280 231	3.9 4.3	300	E 2-876
Emetine	280 230	0.65 1.6		H 1-1062
Quebrachamine	280 228	3.8 4.5		E 1-828
C-Alkaloid T	280 228	3.94 4.45		E 3-788
Lochnerine	280 227	3.93 4.43		E 5-110
Yohimbine	280 226	3.88 4.50		E 1-912
Alloyohimbine	280 226	3.91 4.55		E 2-665
Mavacurine Chloride	280 225	3.8 4.7		W 2-639
Bufotenine	280 225	3.83 4.35	303	E 2-323
d-Chondocurarine Iodide	280 225	3.85 4.79		W 1-1137
Leptactine	280 225	3.85 4.51		U 3-353
Corynantheine	280 225	3.89 4.64		E 1-946
Akuammidine	280 225	3.90 4.55		E 5-109
Ajmalicine	280 225	3.91 4.68		E 2-663
Tetrahydroserpentine	280 225	3.91 4.68		E 2-663

<u>COMPOUND</u>	<u>A_{max}</u>		<u>Log E</u>		<u>Sh</u>	<u>Solv</u>	<u>Ref</u>
Corynanthine	280-	225	3.92	4.53		E	1-912
Corynantheidine	280	225	3.93	4.59		E	2-698
Aricine	280	225	3.97	4.58		E	1-947
d-Tubocurarine HI	280	225	4.08	4.45		E	4-1108
Raumitorine	279	228	3.95	4.54		E	5-110
Heroin	278	230	3.3	3.7		H	3-827
Sarpagine	278	230	3.92	4.30		E	3-746
Pronuciferine HCl	278	229	3.42	4.40		E	6-333
Cevine	278	220	1.4	2.1		U	3-1013
Tetrahydroharman HCl	277	271	3.9	3.9	287	W	1-467
Geissoschizine	277	228	4.50	4.66		B	4-860
Aspidoalbine	277	226	3.89	3.34		E	5-112
Noribogaine HCl	277	225	3.90	4.38	307 292	E	4-780
Vincamine	276	228	3.91	4.46		E	2-665
Lochnerine, N-Oxide	276	226	3.95	4.46		E	4-824
O-Methylhaplophytine	275	240	4.0	4.5	305	EH	4-1037
Vicine	275	236	4.12	3.64		7	2-238
Yohimbine	275	225	3.9	4.7		M	4-864
Aegeline	275	220	4.42	4.36		E	4-728
Cocaine HCl	274	233	3.03	4.09		W	2-538
Perivincine	274	229	3.93	4.54	290	E	2-713
Aconitine HI	274	225	2.97	4.34		E	1-1120
Trigonelline	272	265	3.5	3.6		E	5-80
Mescaline Sulfate	271	269	2.88	2.86		EW	1-413
Criseoviridine	271	223	4.30	4.44		13	3-885
Melinonine B Chloride	270	220	3.8	4.5		E	1-881
Ylfordine	270	230	3.7	4.3		E	1-1153
Vicine	269	235	3.98	3.71		B	2-238
Wilforzine	269	229	3.62	4.29		E	2-864
Geissoschizine	268	224	4.15	4.57		E	4-860
Aspidoalbine	267	226	4.04	4.33		E	5-112
Norfluorocurine	266	240	4.0	4.4	320	E	2-604
Myosmine	266	234	3.58	4.05		E	5-80
Albomaculine	266	224	4.03	4.44	295	E	3-751
Psilocybine	266	220	3.78	4.55		E	5-110
Sinomenine HCl	265	232	3.72	3.83		W	5-83
Haplophytine	265	220	3.91	4.46		U	1-1028
Myosmine	262	226	3.72	3.79		H	5-80
Cimicidine	260	228	3.81	4.32		U	1-965
ψ-Morphine	260	228	3.9	4.6	285	H	3-1099
Spegazzinidine	260	224	3.93	4.39		E	5-112
Falosine	258	220	4.04	4.52		E	4-940
Aspidospermine	257	220	4.03	4.51	285	E	4-911
Gentianine	245	220	3.9	4.38	280	E	5-80
b-Erythroidine HCl	240	232	4.4	4.4	264 245	E	5-90
Dehydroconessine	239	233	4.37	4.35		E	4-976
Apocouessine	233	225	4.34	4.33		E	1-973

TABLE 3: THREE MAXIMA

COMPOUND	A _{max}			Log E			Sh	Solv	Ref
Perloline	399	259	234	4.24	4.37	4.32	384 280	H	5-124
Fluorocurarine Chloride	395	317	250	4.4	3.7	3.9		EB	4-821
Epiisoquinamine	395	225	241	3.5	3.8	4.2		E	5-113
Isoquinamine	393	255	240	3.6	3.8	4.4		M	5-113
Acronycine	392	293	281	--	--	--	309	E	5-105
Acridine	390	356	257	3.66	4.32	5.01	346 318	H	5-105
C-Fluorocurarine Cl	390	310	255	4.2	3.4	3.8		B	2-637
Alstonidine	389	308	250	3.70	4.30	4.54		MH	3-874
Anibine	381	282	253	4.16	3.72	3.84		EB	3-280
Melinonine F HCl	377	308	253	3.67	4.27	4.46		E	3-877
Harmaline	376	344	260	4.02	4.11	3.90		M	5-111
Hydrastine	375	308	250	3.9	3.7	4.2		U	4-854
Brevicolline HCl	373	306	262	3.9	4.3	4.6		W	3-650
Calycanine	370	325	263	3.2	3.4	4.4		M	4-596
N-Methylharman	370	310	250	4.16	4.11	4.51		E	5-113
Hydrastinine Chloride	370	308	250	3.8	3.7	4.2		M	4-336
Serpentine	370	308	252	3.61	4.30	4.49		E	3-872
Ultracurine B Chloride	370	285	220	4.2	4.0	4.5		W	4-1114
Alstonine HCl	369	309	252	3.59	4.36	4.54		E	5-113
Flindersine	365	350	333	3.93	4.10	4.00	314 235	E	5-101
Norfluorocurarine	365	300	244	4.28	3.53	3.96		E	5-112
Harman	365	300	250	3.7	4.2	4.3		EH	1-442
C-Fluorocurarine Cl	362	298	242	4.2	3.4	3.9		E	2-637
Tetradehydroisoemetine	360	308	244	4.27	4.22	3.47		E	5-91
Alstonidine	360	291	238	3.74	4.25	4.66		E	5-113
Kynurenine	360	260	227	2.0	2.3	2.8		W	4-288
Rutacarpine	358	344	328	4.48	4.57	4.50	231	E	5-118
Hydrastinine Chloride	357	303	250	3.9	3.7	4.2		H	4-336
C-Curarine III Chloride	357	300	240	4.2	3.6	4.0		M	4-821
Ultracurine A Chloride	357	290	220	4.1	3.9	4.4		W	4-1113
Gabonine	357	288	253	3.77	3.84	4.40		U	4-870
Aporubropunctatamine	356	306	261	3.69	3.85	4.56		E	4-827
Tetrahydrocoptisine	355	290	250	1.5	3.8	3.8		E	3-739
Stylophine	355	290	240	1.40	4.01	4.0		E	5-94
Thalifendine Iodide	351	278	228	4.33	4.39	4.50		M	7-32
Yobyryne	350	290	240	3.7	4.2	4.6		E	1-804
Eduleine	350	336	256	4.06	4.04	4.53		E	3-632
Harman	350	335	285	3.7	3.7	4.2		EB	1-442
Harman	347	287	234	3.66	3.90	4.15		E	5-113
Palmatine Sulfate	347	266	227	3.8	2.78	2.77		E	4-1123
Quinidine	345	316	250	3.7	3.6	4.4		H	4-824
Quinine HCl	345	310	249	3.7	3.6	4.5		H	4-824
Berberastine	344	365	228	4.35	4.41	4.63		W	5-94
O-Ethylisocolchicine	343	246	229	4.27	4.48	4.41		E	1-964
Berlambine	340	290	224	4.46	4.01	4.72		E	2-627
Tylophorinine	340	287	258	2.91	4.34	4.61		E	2-714
b-Lumicolchicine	340	266	225	3.29	4.36	4.46	282	E	5-77
Hydroxylunine	340	260	223	-	-	-		EH	5-100
Ochropine	337	258	236	4.35	3.90	4.15		E	5-111
Skimmiamine	336	320	250	3.85	3.86	4.9	344 300	E	5-101
Fagarine	336	310	244	3.78	3.86	4.74		E	3-390
Harmine	336	301	241	3.69	4.21	4.61		M	5-111

<u>COMPOUND</u>	<u>A_{max}</u>			<u>Log E</u>			<u>Sh</u>	<u>Solv</u>	<u>Ref</u>
Cotarnine	336	290	256	3.75	3.58	3.87		E	2-320
Prodigiosine	336	281	257	3.89	3.98	3.90		11	2-640
Evoxine	335	320	250	3.9	3.9	4.9		E	2-573
Acronidine	335	253	222	4.17	4.68	4.29	361 384 323 274	E	5-105
Fagarine	334	323	308	3.79	3.23	3.87		E	3-390
Veranthridine	333	319	265	4.31	4.22	4.79		E	3-985
Isoyobyrine	333	246	233	4.42	4.51	4.48		E	2-592
Compactinervine	332	297	237	4.18	3.91	4.0		E	5-112
Echitamidine	331	296	236	4.3	4.0	4.1		E	1-874
Dihydroquinidine	330	320	279	3.72	3.67	3.63		6	1-874
Akuammicine	330	300	227	4.24	4.07	4.09		E	5-112
Condylocarpine	330	296	226	4.16	3.98	4.01		E	5-112
Serpentinine	330	285	222	3.34	4.38	4.41		EB	3-822
Vobtusine	330	265	220	4.26	4.14	4.64	300	E	4-1123
Akuammicine	329	298	234	4.2	4.0	4.1		E	1-821
Mossambrine	329	298	228	4.20	4.03	4.08		E	5-112
Dictamnine	328	312	308	3.82	3.86	3.88		E	3-329
Dictamnine	328	312	236	3.88	3.96	4.78		E	3-329
Tabersonine HCl	328	299	230	3.17	3.99	3.85		E	2-641
Minovincinine	328	298	224	4.10	3.98	3.99		E	5-112
Aegelenine	328	278	248	4.35	3.93	4.03		E	5-72
2-Hydroxycinchonine	328	270	228	3.9	3.8	4.4	240	H	1-822
Minovincine	327	300	227	4.14	3.94	4.03		E	5-112
Lochnericine	327	297	226	4.23	4.04	4.00		E	4-860
2-Hydroxycinchonidine	327	272	230	3.9	3.8	4.4	242	H	1-822
Edulitine Acetate	326	314	238	3.89	3.87	4.36		E	3-401
Cotarnine	326	279	245	3.8	3.6	3.9		E	3-359
Oxohemanthidine	326	275	232	3.71	3.79	4.30		E	4-678
Khaplofoline	322	310	234	3.92	3.98	4.46		U	5-100
Tuboflavine ---	323	289	264	4.38	4.37	4.59		E	5-113
Dihydroavicine	322	278	232	4.33	4.50	4.60		E	4-802
Discretamine	321	310	277	3.89	3.37	3.83		E	4-774
Flindersiamine	320	310	244	4.04	4.06	4.84	333 299	M	5-101
Ifflaimine	320	309	236	4.01	4.05	4.39	298 251	E	5-100
Papaveraldine	320	282	235	4.2	4.1	4.8		E	1-858
Harmalan	319	244	237	4.3	4.4	4.4		E	1-457
Pheantharidine Cl	318	282	257	4.3	4.1	5.0	340	M	3-1121
Hydroxylunadine	318	267	228	3.94	4.37	4.43	330 260 237	E	4-691
Dihydrorubremetine	315	302	290	4.2	4.2	4.2		M	1-1060
Balfourodine	315	299	257	3.63	3.94	4.58		MH	5-100
Lunarine	315	296	224	4.24	4.34	4.42		E	4-990
Lunariamine	315	295	225	4.21	4.31	4.39		U	3-949
Lunaridine	315	295	225	4.21	4.31	4.39		U	3-969
Roemerine HCl	315	272	235	3.59	4.27	4.19		U	5-88
Norfluorocurine	315	265	238	2.7	3.6	4.5		EH	2-604
Pseudofluorocurine Cl	315	263	240	2.8	3.8	4.5		E	3-792
Anibine	315	258	227	4.1	3.6	4.4		E	4-324
Dihydrocinchonine	314	308	298	3.87	3.85	3.67		1	1-825
Dihydrocinchonidine	314	300	282	3.26	3.42	3.57		6	5-99
Cinchonine	314	300	283	3.42	3.59	3.73		8	5-99
Procotine	314	290	240	3.6	3.4	4.0		H	3-873

COMPOUND	<u>A_{max}</u>			<u>Log E</u>			<u>Sh</u>	<u>Solv Ref</u>
Cinchonidine	313	300	283	3.43	3.60	3.73		6 5-99
Lycorenine Acetate	313	281	235	3.81	3.95	4.31		E 2-640
Adiantifoline	312	302	283	4.34	4.39	4.51	292	E 7-32
Papaverine HCl	311	281	250	3.82	3.80	4.69		E 5-82
Dihydranitidine	311	278	228	4.29	4.54	4.61		E 4-851
Apoerysodine	310	288	234	3.79	3.79	3.99		E 5-90
Nornuciferine	310	272	230	3.34	4.23	4.31		E 5-88
Nuciferine	310	272	230	3.32	4.19	4.26		E 5-88
Phanostenine	309	281	221	4.19	4.14	4.48		U 5-88
Liriodenine	309	268	247	3.62	4.13	4.22		E 5-88
Domesticine	308	281	220	4.23	4.08	4.67		U 5-88
Bulbocapnine	308	270	233	3.6	3.9	4.07		U 5-88
Nivaline	308	269	230	3.77	3.75	4.43		E 3-700
Hippeastrine	308	268	227	3.89	3.86	4.51		E 4-679
Clivonine	308	268	226	3.76	3.77	4.33		E 3-650
Laurefoline Chloride	307	281	227	4.14	4.04	4.48		U 5-88
Demethylhomolycorine	307	269	229	3.73	3.88	4.32		E 4-684
Arborine	306	277	232	3.92	3.69	4.31		E 5-118
N-Methylaurotetanine HBr	305	284	221	4.20	4.16	3.64	311	E 5-88
Norisocorydine	305	270	222	3.82	4.18	4.6		E 5-88
Homolycorine	305	267	225	3.69	3.91	4.18		E 2-573
Reserpiline	304	300	229	4.03	4.03	4.57		E 2-714
Isoreserpiline	304	300	228	4.02	4.01	4.58		E 4-933
Glycorine	304	295	282	3.69	3.73	3.68		H 5-118
Noroxyhydrastinine	304	261	223	3.67	3.58	4.31		M 7-32
Boldine	303	284	220	4.23	4.2	4.6		M 5-88
Menispermine Cl	303	270	223	3.76	4.13	4.6		U 5-88
Eburnamonine	303	266	242	3.65	3.98	4.27		E 5-111
Calycanthine	302	293	240	3.73	3.72	4.30		H 5-109
Seredine	302	280	228	3.98	3.75	4.44		U 4-936
Isocorydine HBr	302	268	220	3.8	4.18	4.6		M 5-88
a-Dihydrohomolycorine	302	267	226	3.70	3.92	4.32		E 4-740
Thalifoline	302	261	224	3.77	3.87	4.41		M 7-32
Apoerysopine	301	276	232	3.96	3.96	4.20		EH 5-90
Eburnamenine	301	258	223	3.88	4.47	4.37		U 4-774
Schizogaline	301	254	220	3.79	3.90	4.27		E 5-111
a-Colubrine	300	290	250	3.8	3.8	4.0		E 2-694
Rubremetine Cl	300	286	257	4.26	4.24	4.28		W 5-91
Bufotenine	300	277	223	3.66	3.79	4.34		E 5-95
Morphothebaine	300	276	268	3.9	4.2	4.1		H 3-699
Isorauhimbine, Diacetyl	300	275	245	3.74	4.02	4.10		E 2-746
Tabernanthine	299	271	229	3.76	3.64	4.55		E 4-829
Kimvuline	297	290	227	3.92	3.92	4.39		U 4-830
Aspidolimine	297	264	226	3.26	3.90	4.39		E 5-112
Vomicine HCl	297	263	222	3.51	3.76	4.27		E 5-111
Aspidocarpine	297	262	226	3.21	3.90	4.40		E 5-112
Kopsamine	296	286	228	3.3	3.3	4.5	254	E 2-746
Tetrahydroalstoniline	296	273	226	3.92	3.87	4.67		M 2-691
Poweridine	296	270	226	3.79	3.70	4.56		E 5-110
Conoduramine	295	287	228	4.17	4.14	4.75		M 4-1120
Voacorine	295	285	225	4.25	4.25	4.71		U 3-1135
Corynanthine, Diacetyl	295	270	245	3.7	4.0	4.17		E 1-990
Yohimbine, Diacetyl	295	270	245	3.7	4.0	4.16		E 1-990
Leptaflorine	295	270	230	3.8	3.7	4.5		U 3-411

<u>COMPOUND</u>	<u>A_{max}</u>			<u>Log E</u>			<u>Sh</u>	<u>Solv Ref</u>
Tetrahydroharmine	295	268	227	3.9	3.8	4.6		E 1-528
10-Hydroxyagroclavine	294	286	226	-	-	-		U 7-317
isovobasinol	294	285	224	3.87	3.94	4.52		E 5-110
Elymoclavine, O-Acetyl	294	284	226	3.72	3.80	4.41		E 4-730
Vobasinol	294	274	221	3.83	3.89	4.45		E 5-110
Quebrachamine	293	287	230	3.84	3.86	4.55		E 4-783
Conodurine	293	285	225	4.16	4.19	4.78		E 4-1120
Lumiergobasine	293	285	224	3.83	3.83	4.51		E 2-610
Chanoclavine	293	284	225	3.76	3.82	4.44		E 3-604
Agroclavine	293	284	225	3.81	3.88	4.47		E 2-499
Elymoclavine	293	283	227	3.76	3.84	4.31		E 2-499
Demethylaspidospermine	293	258	220	3.20	3.52	4.39		U 5-112
Strychnospermine	293	249	220	3.75	4.02	4.48		U 5-112
Voacamine	292	286	225	4.17	4.17	4.68		E 4-1095
Stemmadenine	292	284	227	3.84	3.86	4.55		E 4-864
Catharanthine	292	284	226	3.88	3.92	4.56		E 4-860
Eburnamine	292	276	229	3.91	3.92	4.53		U 4-780
Haplocine	292	258	220	3.57	3.95	4.44		U 5-112
Geissoschizoline, Diacetyl	291	283	253	3.52	3.58	3.53		E 4-936
Tetrahydroalstonine	291	283	225	3.9	3.9	4.5		E 2-663
Isorauhimbine	291	282	227	3.83	3.90	4.54		E 2-665
Dihydroergotamine	291	282	220	3.78	3.85	4.54		E 2-841
Methoxyellipticine	291	272	244	4.70	4.63	4.39		E 5-113
Yohimbine	290	283	232	3.82	3.89	4.26		E 1-912
Rauhimbine	290	283	226	3.79	3.87	4.56		E 2-665
-Yohimbine	290	283	226	3.81	3.88	4.55		E 4-864
Yohimbine	290	282	274	4.7	4.8	4.8		H 4-864
Crotonosine	290	282	235	3.41	3.37	4.33		E 5-89
Yohimban	290	282	228	3.3	3.4	4.2	278	U 4-779
3-Epi-b-Yohimbine	290	282	225	3.81	3.88	4.54		E 3-832
Strychnine	290	280	255	3.53	3.63	4.10		E 2-905
Mayumbine	290	280	228	3.82	3.95	4.12		U 5-110
Tetrahydroalstonine	290	280	225	3.9	4.0	4.3	245	H 1-910
Akuammigine	290	274	229	3.80	3.95	4.53		U 5-109
Isovincamine	290	274	228	3.7	3.8	4.5		E 2-665
C-Alkaloid Q	290	270	220	3.8	3.9	4.6		E 3-881
Psilocybin	290	267	220	3.54	3.74	4.57	280	E 4-419
Tetrahydrocevanthridine	289	282	275	4.2	4.2	4.4	265	E 2-747
N-Methylcrotonosine	288	282	228	3.18	3.18	4.29		E 6-333
Linearisine	288	282	228	3.22	3.19	4.30		E 6-334
Kopsingarine	288	280	247	3.32	3.36	4.14		E 4-933
Yohimbine	288	280	225	3.9	3.9	4.4		E 2-666
Refractidine	288	279	254	3.59	3.63	4.11		E 5-110
Norarmepavine	287	282	228	3.69	3.70	4.19		E 5-83
Kopsidinine	286	279	249	3.4	3.4	3.9		E 2-604
Kopsine	286	278	240	3.35	3.37	4.08		E 5-112
Kopsilongine	286	250	220	3.3	4.0	4.4		E 2-735
Pronuciferine	285	280	230	3.55	3.55	4.46	305	E 5-86
Kopsiflorine	284	276	244	3.6	3.6	4.2		E 2-714
Kopsilongine	284	250	224	3.3	4.0	4.3		EH 2-735
Orientalinone	284	242	231	3.77	4.14	4.30		E 6-334
Rauwolscine	282	274	226	3.9	3.9	4.5		E 2-665
ocaine	281	274	230	2.90	2.99	4.19		E 2-538
vincamine	280	276	228	3.9	3.9	4.5		E 2-665

<u>COMPOUND</u>	<u>A_{max}</u>			<u>Log E</u>			<u>Sh</u>	<u>Solv Ref</u>
Dihydrorubropunctatamine	270	243	229	4.19	4.16	4.15	E	4-863
Ephedrine	266	258	252	2.26	2.31	2.27	E	3-266
(-) Sedinine	264	258	252	2.16	2.27	2.17	M	4-697
Sedamine	264	258	252	2.16	2.29	2.19	M	4-535
N-Methylephedrine HCl	264	257	251	2.19	2.27	2.20	W	5-72
Apholarrhenine	241	234	223	1.3	2.2	2.0	E	3-927

TABLE 4: FOUR MAXIMA

COMPOUND	A _{max}				Log E				Sh	Solv	Ref
Liriodenine	392	329	277	257	3.69	3.67	4.26	4.33		EH	5-88
Isomedicosmine	391	375	362	254	4.12	4.10	3.84	4.57	322 278	E	5-102
Alkaloid L	391	311	264	236	3.83	4.21	4.71	4.47		M	7-32
TetradehydroaricineHCl	390	313	268	233	3.59	4.30	4.29	4.51	303	E	4-895
Sempervirine	383	338	295	242	4.16	4.16	4.11	4.51		M	5-113
Isoacronidine	380	363	323	264	3.97	4.01	3.84	4.53	350 314	E	5-112
Flavocoryline HCl	380	340	290	230	4.2	4.3	4.1	4.0		W	2-597
Flindersine	365	350	333	235	3.93	4.10	4.00	4.42		M	3-458
Dehydrofolicanthine	362	348	290	238	3.8	3.8	4.3	4.7		U	3-681
Cryptopleurine	360	344	290	260	2.7	2.9	4.3	4.6		E	2-734
Dihydroisohomo-tylophorine	360	340	290	260	3.12	3.24	4.54	4.80		U	4-989
O-Methylpsychotrine	360	305	290	241	3.94	3.92	3.85	4.25		EH	4-1050
Tylophorinine	359	343	286	258	2.68	2.96	4.40	4.62		E	5-106
2-Dehydro-O-Methyl-psycotrine	358	306	292	236	3.91	3.97	3.96	4.27		E	5-91
Evoxanthine	358	280	263	238	4.20	4.67	4.54	4.37	343	H	5-105
Maculosidine	353	317	306	254	3.77	3.84	3.76	4.78		MH	5-101
Tylophorine	352	340	290	255	2.93	3.30	4.49	4.74		E	2-734
Brevicolline	353	338	388	345	3.69	3.64	3.98	4.42		W	3-650
Perlolidine	352	336	323	244	3.85	3.80	3.73	4.43	249 240 237		
Cevanthridine	352	317	303	276	3.2	4.3	4.2	4.3	365 260	7 E	5-124 2-746
Mitragynine	351	320	292	226	3.0	2.8	3.8	4.6	283 272 251		
Tropolone	351	320	237	228	3.76	3.83	4.36	4.36		U	4-911
Yobyryne	350	338	290	251	3.70	3.70	4.29	4.24		W	5-77
Yobyryne	350	338	289	236	3.65	3.66	4.23	4.53		E	1-804
Norharman	348	335	290	235	3.78	3.82	4.28	4.65		E	2-592
Oxoveranthridine	342	302	292	265	4.08	4.90	4.73	4.58		E	4-319
Maculine	340	314	306	245	4.18	4.28	4.34	4.71	301	E	3-983
7-Methoxyyobyryne	339	326	303	244	3.79	3.86	4.33	4.53		E	5-101
Evoxine	336	318	304	250	3.85	3.86	3.78	4.9	344	E	4-808
Tetrahydroyobyryne	336	302	274	240	3.17	3.78	3.79	4.13		E	5-101
Maculine	335	320	305	240	4.2	4.3	4.3	3.7	295	E	1-815
Kokusaginine	334	323	352	246	3.53	3.64	4.23	4.17		E	2-341
Evolitrine	333	319	308	247	3.87	3.96	3.97	4.81	300 290 256		5-101
Evolatine	333	318	306	243	3.94	4.11	4.08	4.6	277	E	2-352
Kokusaginine	333	317	307	243	3.90	4.07	4.02	4.60	273	E	5-101
Thaspine	332	298	285	250	3.0	3.0	3.1	4.0		E	3-404
Thebenine HCl	330	320	300	257	4.06	4.06	4.13	4.57		E	3-778
Isobalfourdine	330	320	298	242	3.95	4.02	4.86	4.67		W	2-603
Isoevoxine	330	294	260	235	4.0	3.7	4.6	4.3		M	5-100
Soskimmianine	330	294	260	235	4.0	3.6	4.6	4.3		E	2-573
										E	2-404

<u>COMPOUND</u>	<u>A_{max}</u>				<u>Log E</u>				<u>Sh</u>	<u>Solv Ref</u>
Papaverine	327	314	280	239	3.67	3.60	3.86	4.83		E 2-634
Balfourodine	326	312	299	241	3.98	4.05	4.03	4.64		M 5-100
Lunine	325	314	247	222	4.01	4.02	4.60	4.31	268	E 4-632
Eduleine	324	282	274	228	3.41	3.90	3.43	4.61		E 3-609
Eduleitine	323	314	257	250	4.15	4.14	4.52	4.54		E 5-100
Eduleitine	320	280	248	222	3.57	3.88	4.52	4.43		E 3-290
Glycorine	317	306	278	269	3.84	3.91	3.66	3.59		E 5-118
Fugapavine	307	274	266	222	4.0	4.23	4.2	4.5		E 5-89
Dubinine	303	284	274	228	4.17	4.29	4.33	5.27	230	U 5-101
Casimiroitine	303	260	252	227	3.70	4.21	4.23	4.40		E 3-401
Eburnamonine	302	296	268	241	3.68	3.68	4.01	4.30		U 4-775
Fendlerine	300	258	225	220	3.38	3.55	4.25	4.23		E 5-112
Ibogaine	297	291	285	222	4.0	4.0	4.0	4.6		E 1-874
Psilocin	294	285	268	222	3.64	3.67	3.77	4.63	260	M 4-414
Raubasine	292	283	276	225	3.8	3.9	3.9	4.7		E 2-663
Mayumbine	290	282	273	227	3.9	3.9	3.9	4.7		E 2-663
Rauwolscine	290	282	275	227	3.7	3.8	3.8	4.6		E 2-665
Corynantheine	290	282	272	225	3.8	3.9	3.9	4.7		U 4-903
Crotonosine	290	282	235	226	3.47	3.37	4.33	4.30		E 5-332
Julocrotine	268	264	258	252	2.18	2.30	2.44	2.43		E 5-80
Atropine Sulfate	264	255	252	247	2.27	2.30	2.27	2.22		E 5-73
Hyoscyamine Sulfate	264	255	252	247	2.27	2.30	2.27	2.22		E 5-73
Scopolamine HBr	263	259	252	249	2.06	2.14	2.08	2.02		E 5-73

TABLE 5: FIVE MAXIMA

COMPOUND	<u>A_{max}</u>			<u>Log E</u>			<u>Sh</u>	<u>Solv Ref</u>
Ellipticine	384	335	293	3.61	3.7	4.85		
		285	237		4.87	4.32		E 5-113
Norchelerythine	384	324	277	3.47	4.16	4.71		
		256	243		4.58	4.24		E 5-119
Serpentine	382	330	307	3.3	3.9	4.3		
		294	250		4.1	4.6		E 1-905
Medicosmine	381	366	327	3.84	3.84	4.04	303 277	
		313	253		3.94	4.79		E 5-102
U-Alkaloid D	378	329	316	3.17	4.02	4.07		
		277	240		4.64	4.46		E 4-674
Perlolidine	378	273	256	3.99	3.87	4.29	352 280	
		249	238		4.24	4.18		H 5-124
Serpentinine	375	334	308	3.4	3.4	3.8		
		284	254		4.1	4.3		E 1-860
Methoxyellipticine	353	337	294	3.54	3.81	4.73	307	
		277	246		4.66	4.42		E- 4-717
Alstonidine	355	345	290	3.70	3.70	4.18	4.?	
		280	242		4.10	4.65		MB 3-874
Cevanthridine	353	315	302	3.46	4.49	4.40		
		291	270		4.27	4.45		U 3-963
Chaikamine	352	322	292	2.8	2.8	3.7	268 247	
		282	226		3.7	4.6		U 4-903
Maculosidine	351	338	306	3.69	3.76	3.88	284	
		294	246		3.86	4.85		M 5-101
Dihydroolivacine	346	331	276	3.66	4.01	4.64		
		247	238		4.15	4.44		E 5-113
U-Alkaloid B	344	330	296	3.57	3.59	4.22		
		265	244		4.33	4.66		E 4-729
Isokokusagine	341	330	305	4.0	4.0	3.9		
		262	255		4.6	4.5		E 2-404
Methyltetrahydroellipticine	341	328	296	3.62	3.64	4.35	318 287	
		264	243		4.40	4.74	250 229	E 4-730
O-Methylaporubropunctamine	341	300	290	3.55	4.18	4.09		
		280	253		4.09	4.77		E 4-868
Isoevolatine	340	325	305	4.0	4.0	3.9		
		263	254		4.6	4.6		E 1-573
Maculosine	340	323	310	4.06	4.15	4.16		
		295	252		4.05	4.42		E 5-101
(+) Lunacridine	333	294	285	3.55	3.91	3.94		
		257	239		4.41	4.38		E 4-695
Oxyavicine	332	322	289	4.19	4.21	4.76		
		278	248		4.70	4.50		E 4-798
Hydroxylunacridine	332	293	284	3.55	3.90	3.93	345	
		257	239		4.39	4.39		E 4-695
U-Alkaloid C	330	299	263	3.59	4.24	4.34		
		250	241		4.48	4.62		E 4-729
Orixidinine	328	322	314	3.95	3.91	3.97	265 235	
		248	227		4.41	4.49		E 5-102
(-) Lunacrine	326	313	300	3.99	4.01	4.00		
		242	220		4.61	4.34		E 4-641
Dubinidine	322	309	283	4.08	4.07	4.25		
		274	230		4.33	5.05		U 5-101

<u>COMPOUND</u>	<u>A_{max}</u>			<u>Log E</u>			<u>Sh</u>	<u>Solv Ref</u>
Lunamarine	317	259	250	4.28	4.51	4.48	324	
		246	228		4.48	4.50		E 4-715
Pilokeanine	315	303	292	3.69	3.86	3.89		
		240	236		4.33	4.40		EH 5-100
Febrifugine & Iso	312	302	275	3.45	3.68	3.82		
		266	225		3.84	4.4		E 5-118
Casimiroin	300	260	252	3.84	4.34	4.35		
		236	226		4.45	4.50		E 5-99
Psilocin	293	283	268	3.64	3.77	3.87		
		260	222		3.7	4.6		M 4-414

TABLE 6: SIX MAXIMA

<u>COMPOUND</u>	<u>A_{max}</u>			<u>Log E</u>			<u>Sh</u>	<u>Solv Ref</u>
Methoxyellipticine	379	360	314	3.88	3.79	4.75		
	278	255	225	4.36	4.41	4.46		EH 4-717
Serpentinine	373	308	294	3.79	3.75	3.59		
	281	257	227	3.59	4.17	4.37		E 3-822
Oxynitidine	367	333	320	3.63	4.18	4.20		
	288	277	251	4.81	4.72	4.59		E 4-848
6-Methoxydictamnine	350	333	307	4.68	4.75	5.04	284	
	296	261	249	4.99	4.91	6.10		E 5-101
Echinopsine	340	326	291	4.17	4.14	3.47		
	281	239	233	3.36	4.30	4.24		E 5-100
Maculosine	340	322	308	3.9	4.0	4.0	290	
	255	245	235	4.2	4.2	4.2		E 2-450
Orixidine	336	321	307	4.12	4.01	3.95		
	268	259	243	4.46	4.42	4.40		E 5-101

TABLE 7: SEVEN MAXIMA OR MORE

<u>COMPOUND</u>	<u>A_{max}</u>			<u>Log E</u>			<u>Sh</u>	<u>Solv Ref</u>
Olivacine	400	380	332	3.58	3.58	3.62		
	290	285	240	4.86	4.88	4.28		
			225			4.38		E 5-113
6-Methoxyisodictamnine	361	344	329	3.66	3.64	3.38		
	302	290	265	3.07	3.19	4.15		
		255	243		4.03	4.11		E 5-101
Harman	348	334	287	3.7	3.7	4.2	320	
	281	267	250	4.0	4.2	4.4		
		241	235		4.6	4.6		E 1-442
Pilokeanine	321	307	283	3.55	3.49	3.65	295	
	272	262	254	3.73	3.65	3.50		
		238	229		4.43	4.57		E 5-100

TABLE 8: COMPOUNDS EXHIBITING ONLY SHOULDERS

<u>COMPOUND</u>	<u>A_{max}</u>	<u>Log E</u>	<u>Solv Ref</u>
Cevadine	290	2.1	E 3-1082
α-Cevine	280	0.5	E 2-777
α-Cevine	250	0.9	E 1-1037
Isoatisine	250	1.5	E 2-704
Atisine	250	2.5	E 2-704
Atisine HCl	260	3.0	E 2-704
Isoatisine HCl	240	2.8	E 2-704
Oxysparteine	230	3.0	W 1-639
α-Cevine	292 280	0.4 0.4	Ch 1-1037
Base E Acetate	285 278	3.44 3.41	E 6-335
Acrifoline	323 287 250	0.9 1.6 2.2	E 1-702
Annotine	325 290 240	0.4 0.7 3.0	E 1-703

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Corynantheidine
E 2-280
Corynantheine
M 2-291
E 2-280
U 4-290
Corynanthine
E 2-280
M 2-290
Corynanthine, diacetyl
E 3-295
Corynanthyryne
E 2-325
Corynoxine
E 1-244
Corynoxine
E 1-244
B 1-245
Cotarnine
E 3-336
E 3-326
EH 2-324
H 2-331
H 2-322
W 2-322
Cotarnoline
H 2-330
B 2-350
Crinamidine
E 1-288
Crinamine
E 1-297
Crinidine
E 2-295
Crinine
E 2-296
Criwelline
E 2-295

Crotonosine
E 4-290
E 3-290
Cryptocurine Chloride
E 2-288
Cryptopine
H 2-286
Cryptopleurine
E 4-360
EH No change
EB No change
Cularine
E 2-285
Cuspareine
Et 2-300
Cylindrocarpidine
E 1-256
Cytisine
M 2-306

Daphnandrine
M 1-285
Daphnoline
M 1-285
Deacetyldiaboline
E 2-300
Deacetylstrychnospermine
E 1-300
Dehydroalloyohimbine Cl
E 2-355
Dehydroapoyohimbine
E 2-255 (Salt)
Dehydroaricine
EH 1-372 (Salt)
Dehydrobrucidine
E 2-320
Dehydrocevagénine
E 1-275
Dehydrocinchonamine
E 2-325
Dehydroconessine
E 2-239
Dehydrodelpheline
E 1-269
H 1-260
Dehydrodeserpidine Cl
M 2-355
Dehydroemetine
EH 2-284
Dehydrofolicanthine
U 4-362
Dehydrolycorine
E 2-290
Dehydro-O-Methylpsycotrine
E 4-358

Dehydroisoemetine (2)
EH 2-284
Dehydroyohimbine
3 2-350
10 2-309
Delpheline
E 1-213
H 1-213
Dehydrooxodelpheline
E 1-313
Delphinine
E 1-230
Demecolcine
E 2-355
Demethoxy-b-Erythroidine
E 1-312
Demethoxyreserpine (11)
E 1-271
Demethylaspidospermine
U 3-293
U 2-293
B 1-307
Demethyl-2-colchicine
E 2-355
Demethyl-3-colchicine
E 2-353
Demethylhomolycorine
E 3-307
Deoxydauricine
U 1-282
Deoxycodéine
E 1-285
Deoxylycorenine
E 1-285
Deoxynupharidine
E 1-212
Deoxyvomisine
U 1-330
U 1-260
Desacetylaspidospermine
E 2-295
Deserpidine
E 2-272
M 2-289
DesNmethyrrhoeadine
M 2-294
Desoxycalebassine chloride
H 2-292
W No change
Diaboline
E 1-253 (Salt)
Dichotamine
E 1-255
Dicentrine
U 2-310
Dictamine
E 3-328

Dihydroamurone
E 2-316
Dihydroepohemanthidine
E 2-293
Dihydroaporubropunctatamine
E 2-343
Dihydroavicine
E 3-322
Dihydroberberine
E 1-370
EH 1-350 (Salt)
a-Dihydrocaranine
E 1-291
b-Dihydrocaranine
E 1-292
Dihydrocaranine
E 2-293 (Salt)
Dihydrocinchonamine
E 2-292
Dihydrocinchonidine
1 3-314
Dihydrocinchonine
1 3-314
6 3-314
Dihydrocodeine
E 1-286
Dihydrocodeinone
E 1-283
E 1-280
Dihydrocorynantheine
E 2-281
Dihydrocorynoxine
B 1-245
Dihydrocotarnine, 1,2-
U 1-285
Dihydroepiisoquinamine
E 1-390
Dihydroergotamine
E 3-291
Dihydroerysodine
H 2-285
B 2-300
Dihydrogalanthine
E 1-283
Dihydrogelsemine
E 2-281
Dihydrogentianine
E 1-270
Dihydroharman
E 1-320
E 1-360 (Salt)
Dihydrohomolycorine, a-
E 30302
B No change
Dihydrohydrastinine, 1,2-
U 1-293
Dihydrohydroxycodeinone
E 1-283
H 1-280
Dihydroiboluteine A
M 2-315
Dihydroiboluteine B
M 2-317
Dihydroisohomotylophorine
U 4-360
Dihydroisoquinamine
E 2-400
Dihydrojervine
E 2-305
E 1-295
Dihydrojervine, N-Acetyl
E 1-300
Dihydromavacurine
E 2-292
Dihydromorphine
E 1-285
Dihydromorphinone
E 1-283
W 1-280 (Salt)
Dihydronicotyrine
E 1-262
Dihydronitidine
E 3-311
Dihydroclivacine
E 5-346
Dihydrooxocrinine
E 2-294
Dihydrooxopowelline
E 1-287
Dihdropowelline
E 1-287
Dihydropronuciferine I
E 1-287
Dihydroquinamine
E 2-302
Dihydroquinidine
2 2-347
6 3-330
Dihydrorubremetine
M- 3-315
Dihydrorubropunctatamine
E 3-270
Dihydrosandwicine
E 2-288
Dihydrothebainone-c
U 1-280
Dihydrouleine
E 2-283
Dihydroveratramine
E 1-270
Dihydrovomalidine
U 2-293

Dimethylapogalanthamine, O, O-
E 1-285
Dioscorine
U 1-217
Dioxojulolidine, 1,6-
E 1-305
a-Diplospartyrine
Et 1-210
b-Diplospartyrine
Et 1-212
Discretamine
E 3-321
E 1-285
Discretine
E 1-228
E 1-282
Discretinine
E 1-285
Distichine
U 2-285
Domesticine
U 3-308
Dubinidine
U 5-322
Dubinine
U 4-303

Eburnamine
U 3-292
E 2-282
Eburnamenine
U 3-301
Eburnamonine
E 3-303
U 4-302
Echinopsine
E 6-340
Echitamidine
E 3-331
Echitamine
E 2-295
Ecgonine
E 1-275
Eduleine
E 4-323
Eduleine
E 3-350
E 3-316
Eduleine
E 4-324
Eduleitine
E 4-320
E 3-326 (Salt)

Ellipticine
E 5-384
Elliptinine
E 1-311
EH 1-308
Elymoclavine
E 3-293
Elymoclavine, O-Acetyl
E 3-294
Emetine
E 1-285
EH 2-283
H 2-280
Ephedrine
E 3-266
E No change (Salt)
Epicinchonamine
E 2-295
Epicorynanthine
E 2-282
Epicrine
E 1-295
Epihemanthidine
E 2-294
Epihydroxysparteine, 4-
M 1-320
Epiisoquinamine
E 3-395
E 2-295
Epilycorine, 2-
E 1-290
Epipowelline
E 1-287
Epiquinamine
E 2-300
Epi-b-Yohimbine, 3-
E 3-290
Epi-a-Yohimbine
M 2-290
Ergotamine
E 1-318
Ergothioneine
2-10 1-258
Erysodine
EH 2-285
B 1-298
Erythraline
H 2-290
B 2-290
Erythramine
H 2-290
B No change
Erythratine
E 1-296
b-Erythroidine
E 2-240 (Salt)

Erythrophlamine
E 1-222
Eseramine
E 2-311
Eseroline
7 2-315
Evolatine
E 4-333
Evolitrine
E 4-333
Evoxanthine
M 2-399
H 4-358
Evoxine
E 4-336
E 3-335
O-Ethylcolchiceine
E 2-251
Ethylmorphine
E 1-286
W 1-284 (Salt)
H 2-286 (Salt)
Ethylnarceine
W 1-278 (Salt)

Fabianine
E 1-273
a-Fagarine
E 1-288
H 2-282 (Salt)
γ-Fagarine
E 3-336
E 3-334
Falcatine
E 1-287
Febrifugine
E 5-312
Fendleridine
E 2-292
Fendlerine
E 4-300
Flavocoryline
W 4-380 (Salt)
B 2-260 (Salt)
Flindersiamine
M 3-320
MH 2-288
Flindersine
E 3-365
M 4-365
Fluorocurarine chloride
EB 3-395
Folicanthine
E 2-305
E 2-311
EH 2-300

Formosanine
E 1-244
Fugapavine
E 4-307

Gabonine
U 3-357
Galanthamine
E 1-288
E 2-288
Galanthine
E 1-284
Geissoschizine
E 2-301
E 2-290
E 2-268
B 2-277
Geissoschizoline, diacetyl
E 3-291
Gelsedine
E 1-258
EB 1-244
Gelsemicine
E 2-285
EB 1-290
Gelsemine
EB 1-262
E 2-282 (Salt)
E 2-285 (Salt)
E 1-252 (Salt)
Gelsemine, N-Acetyl
E 1-233
Gentianine
E 2-245
E 1-226
a-Germine
E 1-276
Germine
E 2-320
B 2-372
Glaucine
E 2-302
Glaziovine
E 1-288
EB 1-308
Glycorine
E 4-417
H 3-304
Glycosmicine
E 2-311
Gramine
E 2-282
E 1-280
Griseoviridine
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Haplocine
E 3-292
Haplophytine
E 2-285
EH 2-280
EB 2-325
U 2-265
Harmalan
E 3-319
H 2-350
B 2-315
Harmaline
E 1-316
M 3-376
H 2-380
B 1-335
E 1-324 (Salt)
Harman
E 8-348
E 3-347
EH 3-365
EB 3-350
Harmine
M 3-336
Hemanthamine
U 1-294
Hemanthidine
E 2-293
Hemanthine
U 2-285
Heroin
E 1-281
H 2-278
Hetisine
E 1-255
EH No change
Hippeastrine
E 3-308
Homarine
E 1-278
B 1-273
Homolycorine
E 3-305
Hortiamine
E 2-376
Huntercorymine
E 2-376
10-Hydroxyagroclavine
U 3-294
2-Hydroxycinchonidine
H 2-327
2-Hydroxycinchonine
H 3-328
Hydroxylunacridine
E 5-332
Hydroxylunadine
E 3-318
Hydroxylunine
EH 3-340
Hydroxylycoctonine
EH 1-337
2-Hydroxynicotine
H 2-303
6-Hydroxynicotine
H 2-295
2-Hydroxyquinidine
H 2-368
Hydrastine
U 3-375
E 1-297
Hydrastinine
H 2-307
Hydrastinine chloride
M 3-370
H 3-357
Hyoscyamine
E 4-264 (Salt)
Ibogaine
E 4-297
E 1-293
M 2-298
M 2-290
Ibogaline
E 2-304
Ibogamine
E 2-282
M 2-292
Iboxygaine
E 4-297
E 2-288
Iboluteine
E 1-230
Ifflaimine
E 3-320
MH 2-294
Imidazole
E 1-211
Integerrimine
E 1-212
Isaacronidine
E 4-380
Isoacronycidine
E 2-347
Isoajmaline
E 2-285
E 2-289 (Salt)
Isoapo-b-erythroidine
E 2-289
Isoatisine
E 0-250s
E 0-240s (Salt)

Isoaureothamine
E 1-305
Isobalfourdine
M 4-330
MH 2-305
Isocaranine
E 1-291
Isocolchicine, O-Ethyl
E 3-343
Isocolchicine
E 2-343
E 1-343
Mc 1-338
Isocorydine
M 3-302 (Salt)
Isodemecolcine
E 2-345
Isodeserpidine
E 1-271
Isoeburnamine
E 2-281
Isoemetine
E 2-285
EH No change
Isoevolatine
E 5-340
Isoevoxine
E 4-330
Isofebrifugine
E 5-312
Isogermine
E 1-278
Isokokusagine
E 2-339
Isokokusaginine
E 5-341
Isomedicosmine
E 4-391
Isopenniclavine
E 2-313
Isopolystictine, Diacetyl
E 2-393
Isoprotoverine
E 1-286
Isoquinamine
M 3-393
E 2-393
Isorauhimbine
E 3-291
Isorauhimbine, Diacetyl
E 3-300
Isoraunescine
E 1-270
Isoreserpiline
E 3-304
E 2-204
Isoreserpinine
E 2-299
Isorhyncophylline
E 1-244
Isosetoclavine
U 2-314
Isoskimmianine
E 4-330
a-Isosparteine
E 1-216
Isothebaine methyl ether
U 2-302
Isovincamine
E 3-290
Isovoacangine
E 3-300
M 2-299
Isovobasine
E 2-320
Isovobasinol
E 3-294
Isoyobyrine
E 3-333
E 2-342 (Salt)
Jaborandine
E 1-294
Jacozine
E 1-233
E 1-223
Jervine
E 1-250
E No change (salt)
E 2-360
Jervine N-Acetate
E 2-320
Jervine, O-Acetyl
E 2-360
Julocrotine
E 4-268
Kamassine
E 2-290
Khaplofoline
U 3-322
Kimvuline
U 3-297
Kisantine
1-273
Kokusaginine
E 4-334
E 4-333
Kopsamine
E 3-296
EH 2-286

Kopsaporine
E 2-280
Kopsidinine
E 3-286
Kopsiflorine
E 3-284
EH No change
Kopsilongine
E 3-286
EH 3-284
Kopsine
E 3-286
Kopsingarine
E 3-288
Kopsingine
E 2-287
Kopsinilam
E 2-294
Kopsinine
E 2-295
EH No change
Krigeine
E 2-287
Kriginamine
E 1-285
Kynurenine
7 1-365
W 3-360

Lambertine
E 1-285
Lapazine
Ch 2-362
Laudanine
E 1-284
E 1-283
Laudanosine
E 1-282
E 1-280 (Salt)
Laurefoline chloride
U 3-307
Laurelliptine
E 2-305
Leonurine
M 1-276
B 2-326
Leptactine
U 2-280
Leptaflorine
U 3-395
Limocrocine
B 1-260
Linearisine
E 3-288

Liriodenine
E 3-309
EH 4-392
Litserisine
E 1-291
E 1-288 (Salt)
Lobelanine, Cis-
MH 1-245
Lochnericine
E 3-327
Lochnerine
E 2-280
Lochnerine, N-Oxide
E 2-276
Lophocerine methyl ether
E 1-285
a-Lumicolchicine
U 2-338
b-Lumicolchicine
E 3-340
Lumiergobasine
E 3-293
Lunacridine
E 5-333
Lunacrine
E 5-326
H 2-300
Lunamarine
E 5-317
Lunariamine
U 3-315
Lunaridine
U 3-315
Lunarine
E 3-315
H 2-354
B 2-355
U 2-312
Lunine
E 4-325
EH 2-332
Lycoctonine
E 1-213
Lycodine
M 1-267
MH 1-272
Lycorenine
E 1-285
U 2-283
E 3-313 (Salt)
Lycorine
E 1-293
E 1-297
E 1-292
Lycorine, 1-Acetyl
E 2-293

Lycorine, methyl ether
E 1-292
Maculine
E 4-340
E 4-335
Magnocurarine
E 2-282
Manthidine
E 2-294
Manthine
E 2-294
Maculosidine
M 5-351
MH 4-353
Maculosine
E 6-340
E 5-340
Mavacurine chloride
W 2-280
Mayumbine
E 4-290
E 2-287
U 3-290
Mecambrine
M 2-294
Medicopidine
E 2-399
Medicopicine
E 2-300
Medicopine
E 2-303
Medicosmine
E 5-381
Melinonine chloride
E 1-288
Melinonine B chloride
E 2-270
Melinonine F
E 3-377 (Salt)
B 1-220 (Salt)
E 2-330
Menispermine chloride
U 3-303
Mescaline
E 1-270
EW 2-271 (Salt)
EW 1-269 (Salt)
Metathebaine
U 1-300
Methoxydictamine, 6-
E 6-350
Methoxyellipticine
E 3-291
EH 6-379
EH 5-353
Methoxyisodictamine, 6-
E 8-361
Methoxyyobyrine, 7-
E 4-339
N-Methylaporubropunctatamine
E 2-370
O-Methylaporubropunctatamine
E 5-341
N-Methylbalfordinium chloride
E 2-376
Methylcytisine
M 2-309
N-Methyldemecolcine
E 2-355
N-Methylcrotonosine
E 3-288
N-Methylephedrine
W 3-264 (Salt)
O-Methylhaplophytine
U 2-300
EH 2-275
EB 2-280
N-Methylharman
E 3-370
N-Methylbogaine
E 2-289
1-Methylaudanosine
U 1-280
N-Methylaurotetanine
E 3-305 (Salt)
N-Methyloreoline
M 1-285
Methylperloline
B 2-375
O-Methylpilocereine
E 2-320
Methylpseudoglycorine
E 1-285
EH 2-283
O-Methylpsychotrine
EH 4-360
O-Methylspegazzinine
E 1-254
Methyltetrahydroellipticine
E 5-341
O-Methylthalicberine
M 1-278
Michepressine Iodide
U 2-316
Micranthine
M 1-286
Mimosine
M 1-252
H 1-280
W 1-282
Minovincine
E 3-327
Minovincinine
E 3-328

Mitragynine		Narcotine	
U 4-351		E 2-310	
Mitraphylline		H 3-314	
E 1-243		Natelensine	
Miyaconinone		E 2-297	
E 1-294		Narcissamine	
Ø-Miyaconinone		E 1-287	
E 1-284		Narcissidine	
Miyaconitine		E 1-284	
E 1-295		Nebularine	
Miyaconitone		W 1-263	
E 1-290		Neojmaline	
Montanine		E 2-290 (Salt)	
E 2-297		Neoccevagénine	
Morphine		E 1-279	
E 2-295		Neodeoxyvomisine	
2-8 1-286		U 1-303	
10 1-294		Neopine	
12 1-298		W 1-284 (Salt)	
E 1-287		H 1-284 (Salt)	
H 1-286		Neopinone	
B 2-299		E 1-283	
W 1-285 (Salt)		Neostrychnine	
Ψ-Morphine		Et 1-246	
H 2-260		Nerbowdine	
Morphine Acetate		E 1-287	
E 1-287		Neronine	
E 1-282		E 2-285	
Morphine N-Oxide		Netropsinine	
W 1-285		E 2-304	
Morphinone		H 1-283	
E 1-280		E 20301 (Salt)	
EB 1-297		Nicotine	
Morphothebaine		E 1-262	
E 2-300		H 1-259	
H 3-300		Nicotyrine	
Mossambrine		E 1-288	
E 3-329		H 2-310	
Multiflorine		Nivaline	
E 1-326		E 3-308	
H 1-320		Noraporphine	
Cy 1-300		E 1-271	
Muscopiridine		Norarmepavine	
E 1-267		E 3-287	
Myosmine		Norchelerythine	
E 2-266		E 5-384	
H 2-262		Norchelidonine	
		E 2-293	
		Norcodeine	
		E 1-285	
		Norcurarine	
		E 2-300	
		Nordictamine	
		E 2-329	
		Norfluorocurine	
		E 3-365	
		E 2-266	
		EH 3-315	
		EB 2-266	
Naepaine			
U 1-299			
Nantenine			
U 2-310			
Napellonine			
U 1-290			
Narceine			
E 1-270			
W 1-277 (Salt)			

Norharman
E 4-348
Noribogaine
E 2-277 (Salt)
Norisocorydine
E 3-305
Norlupinane
Et 1-215
Normavacurine
E 1-275
EH 1-270
EB 2-278
Nornicotine
E 1-262
Nornicotyrine
E 2-294
H 2-316
Nornuciferine
E 3-310
Noroxyhydrastinine
M 3-304
MH No change
MB No change
Norpseudoephedrine
W 3-264 (Salt)
Norushinsunine
U 2-328
Nuciferine
E 3-310
Numismine
E 2-315

a-Obscurine
E 1-255
b-Obscurine
E 2-315
Ochropine
E 3-337
Ocoteine
E 2-302
Ocotine
U 1-285
Olivacine
E 7-400
Oreoline Methiodide
M 1-285
Orientalinone
M 3-284
Orixidine
E 6-336
Orixidinine
E 5-328
Oxocrinine
E 2-296

Oxohemanthidine
E 3-326
Oxoisoatisine
EH 1-325
13-Oxoprotopine
E 2-317
Oxoveranthridine
E 4-342
Oxyacanthine
M 1-285
Oxyvicine
E 5-332
Oxycolchicine
E 2-281
Oxynitidine
E 6-367
Oxysparteine
E 1-212
W 0-230s

Palosine
E 2-258
Palmatine Sulfate
E 4-347
Papaveraldine
E 3-320
Papaverine
E 4-327
11 1-289
E 3-311 (Salt)
Pavine
E 1-288
Penniclavine
E 2-315
Pereirine
E 2-300
Perivincine
E 2-274
Perlolidine
H 5-378
B 2-360
7 4-352
Perloline
H 3-399
Phalloidine
W 1-292
Phanostenine
U 3-309
Pheantharidine chloride
M 3-318
Pholcodine
W 1-283

Physostigmine
E 2-311
Physovenine
E 2-310
Pilocereidine
E 1-284
Pilocereine
E 1-284
E 1-284 (Salt)
H No change
Pilocereine Methiodide
E 2-310
Pilokeanine
E 8-321
EH 5-315
Piperettine
E 1-364
Piperine
E 1-345
Pleiocarpine
E 2-282
Pleiocarpinilam
E 2-297
Pleurospermine
E 3-310
EB 2-345
Pluviine
E 1-282
Polynneuridine
E 2-281
Powelline
E 1-288
Poweridine
E 3-296
Prodigiosine
3 2-371
11 3-336
Pronuciferine
E 4-285
E 3-285
E 2-282
E 2-278 (Salt)
Protopine
E 1-293
E 1-290
E 1-290 (Salt)
E 2-290 (Salt)
Protopine Methiodide
E 1-308
E 1-290
Protostephanine
E 2-281
Protoveratrine
E 2-330
E 2-290
Pseudoakuammigine
E 2-391
E 2-290
Pseudocarpine
E 2-299
Pseudocodamine
E 1-284
Pseudocorydine
E 2-302
Pseudofluorocurine chloride
E 3-315
Pseudomorphine
EH 1-231
B 2-306
Pseudoreserpine
M 2-293
Pseudoyohimbine
E 2-281
M 2-290
Psilocin
M 4-294
M 5-293
Psilocybin
M 3-290
E 2-266
Pukatein
U 2-303 (Salt)
Pyracconine
M 1-275
M 2-310 (Salt)
Pyroxonine
M 1-305

Quebrachamine
E 3-293
E 2-280
Quebrachidine
E 2-291
Quinamine
E 2-303
E 2-299
Quinidine
H 3-345
Quinine
W 1-348
H 2-347
H 3-345 (Salt)

Raugustine
E 2-291
Raubasine
E 4-292
Rauhimbine
E 3-290
Raujemidine
E 2-294
Raumitorine
E 2-279
Raunescine
E 1-271
M 1-291
Rauniticine
E 2-282
Raunitidine
E 2-298
Raupine
E 2-299
M 1-290
Rauvomitine
M 1-252
Rauwanine
E 2-298
Rauwolfine
E 2-300
Rauwolfinine
E 2-292
Rauwolscine
E 4-290
E 3-282
M 2-291
Recanescine
M 2-289
Refractidine
E 3-288
Renoxidine
E 2-290
Repandine
M 2-284
M 1-284
Rescidine
E 2-302
Rescinamine
E 2-302
Reserpiline
E 3-304
Reserpine
E 3-296
E 2-295
E 1-268
Ch 1-268
Ψ-Reserpine
E 2-296
Reserpine, N-Oxide
E 2-295
Reserpinine
M 2-302
M 2-296
Reticuline
E 1-285
Retrorsine
E 1-218
Rhetsinine
E 1-314
Rhoeadine
M 2-291
Rhoegainine
M 2-292
Ricinine
U 2-315
Rodiasine
U 1-287
E 1-284 (Salt)
Roemerine
U 3-315 (Salt)
Rosmarinine
W 1-219
Rotundine
E 1-288
Rubremetine chloride
W 3-300
Rubreserine
W 1-300
Rubropunctatamine
E 2-305
Rutacarpine
E 3-358
Ryanodine
E 1-269
Rhyncophylline
E 2-280
E 2-284
Sandwicine
E 2-292
Sarpagine
E 2-310
E 2-280
E 2-278
EB 2-322
U 2-284 (Salt)
Schizogaline
E 3-301
Schizozygine
E 2-313
Sclerotioramine
E 2-345
Scopolamine
E 4-263 (Salt)

Sedamine
M 3-264
Sedinine
M 3-264
Selagine
E 2-313
Semperflorine
E 2-290
Sempervirine
E 2-352
M 4-383
Senecionine
E 1-221
E 1-215
Sepeerine
E 1-284
Seredine
E 2-302
M 2-305
U 3-302
Serpentinine
E 6-373
E 5-375
EB 3-330
Serpentine
E 5-382
E 3-370
E 2-330
E 2-320
Serpine
M 2-290
Setoclavine
E 2-313
Simomenine
H 1-266
W 2-265
Sinapine Iodide
E 2-333
Skimmiamine
E 3-336
Sparteine
E 1-214
Spartoidine
E 1-215
Spegazzinidine
E 2-260
Spegazzinine
E 2-289
E 2-285
E 1-257
Spegazzinine, 0,0-Diacetyl
E 1-252
Spermostrychnine
E 2-281
Staphisine
E 1-265
Stemmadenine
E 3-292
Stephanine
U 1-272
Stepharine
E 2-284
Strychnidine
E 2-317
Strychnine
E 3-290
E 1-260
H 1-255
EW 1-255
E 3-287 (Salt)
Strychnospermine
E 3-293
E 2-293
Stylopine
E 3-355
Swietenine
E 1-288
Tabernanthine
E 3-299
M 2-299
Tabersonine
E 3-328 (Salt)
Tacomamine
E 1-226
Taxine B
M 1-280
H 1-280
Tazettamine
U 2-293
Tazettine
E 2-295
Tenuipine
E 1-282
Tetrahydroalbomaculine
E 1-277
Tetrahydroalstoniline
M 3-296
M 2-296
Tetrahydroalstonine
M 3-291
M 2-291
H 3-290
Tetrahydroaricine
E 4-390 (Salt)
Tetrahydroaureothamine
E 1-243
Tetrahydrocasimiroedine
E 1-280

Tetrahydrocevanthridine
E 3-389
Tetrahydrocoptisine
E 3-355
Tetrahydroerysodine
EH 1-284
B 2-300
Tetrahydroerysotrine
EH 2-285
Tetrahydroerythraline
H 1-290
EH 1-291
B 1-290
Tetrahydrofluorocurarine Cl
E 2-302
Tetrahydroglaziovine
E 1-286
EB 2-299
Tetrahydrohomolycorine
E 1-281
Tetrahydroharman
E 2-282
M 2-291
W 2-277 (Salt)
Tetrahydroharmine
E 3-295
Tetrahydroisoemetine
E 3-360
Tetrahydroisoquinoline
E 2-303
Tetrahydrojervine
E 1-310
Tetrahydromavacurine
E 2-285
H No change
Tetrahydromecambrine
E 1-290
Tetrahydroneronine
E 1-284
Tetrahydronorfluorocurarine
E 2-302
Tetrahydroserpentine
E 2-280
E 2-282
M 2-292
Tetrahydroxybyrine
E 4-336
E 1-321
E 1-320
Tetraphyllicine
E 2-290
E 2-294
Tetraphylline
E 2-298
E 2-294
Thalicarpine
M 2-302
Thalifendine Iodide
M 3-351
MB 2-373
Thalifoline
M 3-302
MB 3-329
Thaspine
E 4-332
Thebaine
E 1-285
E 1-283
H 1-285
Thebenine
W 4-330 (Salt)
Thiobinupharidine
E 1-298
Toddaline
E 2-331
Toxiferine I chloride
W 1-295
Toxiferine III chloride
W 1-275
Trichocereine
W 1-269
Trigonelline
E 2-272
E 1-265
H 1-264
B 1-264
Trilobine
M 1-288
Tropolone
W 4-351
Tubocurarine
E 2-280 (Salt)
B 2-295 (Salt)
Tubocurarine chloride
E 1-280
H No change
B 1-292
Tuboflavine
E 3-323
Tylophorine
E 4-352
Tylophorinine
E 4-359
E 3-340
U-Alkaloid B
E 5-344
U-Alkaloid C
E 5-330
U-Alkaloid D
E 5-378

Tetrahydrocevanthridine
E 3-389
Tetrahydrocoptisine
E 3-355
Tetrahydrocorysodine
EH 1-284
B 2-300
Tetrahydrocorysotrine
EH 2-285
Tetrahydroerythraline
H 1-290
EH 1-291
B 1-290
Tetrahydrofluorocurarine Cl
E 2-302
Tetrahydroglaziovine
E 1-286
EB 2-299
Tetrahydrohomolycorine
E 1-281
Tetrahydroharman
E 2-282
M 2-291
W 2-277 (Salt)
Tetrahydroharmine
E 3-295
Tetrahydroisocemetine
E 3-360
Tetrahydroisoquinoline
E 2-303
Tetrahydrojervine
E 1-310
Tetrahydromavacurine
E 2-285
H No change
Tetrahydromecambrine
E 1-290
Tetrahydroneerone
E 1-284
Tetrahydronorfluorocurine
E 2-302
Tetrahydroserpentine
E 2-280
E 2-282
M 2-292
Tetrahydroyobyryne
E 4-336
E 1-321
E 1-320
Tetraphyllicine
E 2-290
E 2-294
Tetraphylline
E 2-298
E 2-294
Thalifendine Iodide
M 3-351
MB 2-373
Thalifoline
M 3-302
MB 3-329
Thaspine
E 4-332
Thebaine
E 1-285
E 1-283
H 1-285
Thebenine
W 4-330 (Salt)
Thiobinupharidine
E 1-298
Toddaline
E 2-331
Toxiferine I chloride
W 1-295
Toxiferine III chloride
W 1-275
Trichocereine
W 1-269
Trigonelline
E 2-272
E 1-265
H 1-264
B 1-264
Trilobine
M 1-288
Tropolone
W 4-351
Tubocurarine
E 2-280 (Salt)
B 2-295 (Salt)
Tubocurarine chloride
E 1-280
H No change
B 1-292
Tuboflavine
E 3-323
Tylophorine
E 4-352
Tylophorinine
E 4-359
E 3-340
U-Alkaloid B
E 5-344
U-Alkaloid C
E 5-330
U-Alkaloid D

Uleine
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E 1-350
E 1-308 (Salt)
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W 3-357
Ultracurine B chloride
W 3-370
Undulatine
E 1-288
Usaramoensine
E 1-203
Uscharamine
U 1-216
Ushinsunine
U 2-321

Vallesine
E 1-259
E 1-250
Vanilloylzygadenine
E 2-294
Vasicine
E 1-304
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Vellosine
U 1-260
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U 1-220
Veranthridine
E 3-333
Veratramine
E 1-268
Veratridine
E 2-292
E 1-260
Veratrobasine
E 1-252
Veratroylzygadenine
E 2-293
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H 1-274
B 2-269
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Vincamsjine
E 2-291
Vincamajoridine
E 2-312
EB 2-328
Vincaleukoblastine
E 2-290
Vincamedine
U 2-295

Vincamine
E 3-280
E 2-276
Vincaminorine
U 2-282
Vindoline
E 2-304
Vindolinine
E 2-300
Vindorosine
E 2-304
Virosecurinine
E 1-256
Voacafrine
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Voacamidine
M 2-293
Voscamine
E 3-292
E 2-295
Voacangarine
E 2-286
E 2-282
Voacangine
U 2-285
Voachalotine
E 2-283
Voacorine
U 3-295
Voacristine
E 2-282
Voacryptine
U 2-285
Vobasine
E 2-316
Vobasinol
E 3-294
Vobtusine
E 3-330
Vomalidine
M 2-292
U 2-293
Vomicine
E 3-297 (Salt)
U 2-291
Vomilenine
E 1-257

Wilfordine
E 2-270
H No change
Wilforzine
E 2-269
H No change

Xylopine
E 1-287

Yobyryne
E 4-350
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Yobyryone
E 2-388

Yohimban
U 3-290

Yohimbine
E 3-290
H 3-290
E 3-288
E 2-280
M 3-290

b-Yohimbine
E 3-290

Yohimbine, diacetyl
E 3-295

Yohimbone
E 1-278

References

- 1 Kamlet, Mortimer J., Ed., "Organic Electronic Spectral Data," Volume I, Wiley-Interscience, New York, 1960
- 2 Ibid, Volume II, Herbert E. Ungnade, editor, 1960
- 3 Ibid, Volume III, Owen H. Wheeler and Lloyd A. Kaplan, editors, 1966
- 4 Ibid, Volume IV, J.P. Phillips and F.C. Nachod, editors, 1963
- 5 Sangster, Alfred W., and Stuart, Kenneth L., "Ultraviolet Spectra of Alkaloids", CHEMICAL REVIEWS, 67, 69 (1967)
6. Stuart, K.L., and Cava, M.P., "The Procaporphine Alkaloids", CHEMICAL REVIEWS, 68, 321 (1968)
7. LLOYDIA, Volume 32