

ALKALOIDS

REFERENCE STANDARDS



Alkaloids



Alkaloids are a group of naturally occurring chemical compounds produced by a large variety of organisms. They are typically bitter tasting and are produced in plants as part of their chemical defense as well as the regulation of growth. Many alkaloids are toxic and often have pharmacological effects. They are often named after the botanical from which they were isolated adding a suffix of "ine".

From morphine to caffeine, Alkaloids have been present in a variety of medicinal and food applications. Specifically, more than 12,000 alkaloids have been identified, some coming from more than 150 families in botanical sources. In fact, 20% of flowering plants contain alkaloids.*

- True alkaloids which have a heterocyclic ring with nitrogen that is derived from amino acids
- Proto-alkaloids does not have a heterocyclic ring with nitrogen but is derived from amino acids
- Pseudo-alkaloids which has a heterocyclic ring with nitrogen but is not derived from amino acids. (The non-nitrogen containing rings or side chains are derived from terpene or acetate)

The position of the nitrogen atom in the alkaloid ring gives the compound a resemblance to natural neurotransmitters found in the central nervous system of the human body. Because of this resemblance, alkaloids exhibit pharmacological activity and toxicity. Human use of alkaloids and the plants that contain them for both medicinal use and recreational use stretches from antiquity. Many alkaloids are still used in modern medicine usually in the form of stable salts.

What makes our Alkaloids Standards different/better?

ChromaDex is the leading provider of phytochemical reference standards, botanical reference materials, and research grade materials for the natural products industry since 1999. As a results, our extensive experience and knowledge within all these fields and specifically Alkaloids makes us unique. Our alkaloid standards are of the highest quality offered in different grades Primary Analytical Standards (P), Analytical Standards, (AS), and Reagent Grade Chemicals (RG). In fact, our Primary Analytical Standards (P) are supplied with a detailed certificate of analysis (CoA) that highlights data using:

- NMR
- High Resolution Mass Spec
- HPLC or GC with Method Details
- Water Content by Karl Fisher
- Residual Solvents by GC/MS

Our results are included in our CoA. We provide a clear, concise, and detailed characterization on all of our standards like no other.

Part Number	Standard	Grade	Sizes	CAS Number	Chemical Family
ASB-00001051	Acetaminophen	P	250mg, 500mg	103-90-2	Alkaloids
ASB-00001117	Acetylcorynoline	P	10mg	18797-80-3	Alkaloids
ASB-00001340	Aconitine	P	10mg, 25mg	302-27-2	Alkaloids
ASB-00001350	Acridone	RG	1g	578-95-0	Alkaloids
ASB-00001491	Ajmalicine	P	10mg, 50mg	483-04-5	Alkaloids
ASB-00001496	Ajmaline	P	5mg, 10mg, 25mg	4360-12-7	Alkaloids
ASB-00111075	Atropine Methyl Nitrate	P	1g, 250mg	52-88-0	Alkaloids
ASB-00011074	Atropine Sulfate	P	10mg, 25mg	55-48-1	Alkaloids
ASB-00011075	Atropine Sulfate	RG	1g	55-48-1	Alkaloids
ASB-00002052	Benfotiamine	P	10mg, 25mg	22457-89-2	Alkaloids
ASB-00002200	Berberine Chloride	AS	10mg, 100mg	633-65-8	Alkaloids
ASB-00002201	Berberine Chloride(P) (Ahp Verified)	P	10mg, 25mg, 100mg	633-65-8	Alkaloids
ASB-00002345	Boldine	RG	100mg	476-70-0	Alkaloids
ASB-00002461	Brucine	RG	1g	357-57-3	Alkaloids
ASB-00002470	Bulbocapnine HCl	RG	10mg	632-47-3	Alkaloids
ASB-00003027	Caffeine	AS	1g, 5mg, 25mg, 100mg	58-08-2	Alkaloids
ASB-00003032	Caffeine(P) (Compendial Traceable)	P	1g, 10mg, 100mg, 200mg	58-08-2	Alkaloids
ASB-00003085	Camptothecin	P	10mg, 25mg	7689-03-4	Alkaloids
ASB-00003135	Capsaicin(Methyl-N-Vanillyl-6-Noneneamide)	P	5mg, 10mg, 25mg	404-86-4	Alkaloids
ASB-00003326	Catharanthine	AS	10mg	2468-21-5	Alkaloids
ASB-00003395	Chelerythrine Chloride	RG	5mg	3895-92-9	Alkaloids
ASB-00003396	Chelerythrine Chloride	P	5mg, 25mg	3895-92-9	Alkaloids
ASB-00003645	Cimetidine	P	1g	51481-61-9	Alkaloids
ASB-00003652	Cinchonine	P	10mg, 50mg, 100mg	118-10-5	Alkaloids
ASB-00003735	Coniine HCl, DL	RG	5mg	15991-59-0	Alkaloids
ASB-00003730	Coniine, DL	RG	25mg	3238-60-6	Alkaloids
ASB-00003114	Convolvamine Hydrochloride	RG	5mg	5896-59-3	Alkaloids
ASB-00003772	Coptisine	P	5mg, 10mg	3486-66-6	Alkaloids
ASB-00003812	Corynanthine(Rauhimbine)	RG	10mg	483-10-3	Alkaloids
ASB-00003814	Corynoline	P	5mg	18797-79-0	Alkaloids
ASB-00003958	Cyanuric Acid	P	10mg, 50mg, 100mg	108-80-5	Alkaloids
ASB-00031065	Cytisine(Laburnin)	P	5mg, 10mg, 25mg, 100mg	485-35-8	Alkaloids
ASB-00003979	Cytochalasin H	RG	1mg	53760-19-3	Alkaloids
ASB-00004452	Dihydrocapsaicin	P	10mg, 25mg	19408-84-5	Alkaloids
ASB-00004167	Dihydroflavopereirine Chloride	P	5mg	98890-48-3	Alkaloids

Part Number	Standard	Grade	Sizes	CAS Number	Chemical Family
ASB-00004675	Diindolylmethane, 3,3'	P	50mg, 100mg, 500mg	1968-05-4	Alkaloids
ASB-00005261	Eserine	RG	10mg, 25mg	57-47-6	Alkaloids
ASB-00005395	Evodiamine	P	5mg, 10mg	518-17-2	Alkaloids
ASB-00006066	Flavopereirine Perchlorate	P	5mg, 10mg	70128-63-1	Alkaloids
ASB-00007036	Galanthamine	P	10mg, 25mg, 100mg	357-70-0	Alkaloids
ASB-00007037	Galanthamine Hydrobromide	P	5mg, 25mg, 250mg	1953-04-4	Alkaloids
ASB-00007065	Gelsemine	P	10mg	509-15-9	Alkaloids
ASB-00007241	Glaucine HBr	P	25mg, 100mg	50722-32-2	Alkaloids
ASB-00008043	Harmine	AS	100mg	486-84-0	Alkaloids
ASB-00008045	Harmine	AS	25mg, 100mg	442-51-3	Alkaloids
ASB-00008218	Higenamine	P	5mg, 10mg, 25mg	5843-65-2	Alkaloids
ASB-00008315	Homoharringtonine	P	10mg, 25mg	26833-87-4	Alkaloids
ASB-00008334	Hordeanine	P	100mg	539-15-1	Alkaloids
ASB-00008340	Huperzine A	P	5mg, 10mg, 50mg	102518-79-6	Alkaloids
ASB-00008350	Hydrastine, (-)-B	P	10mg, 25mg, 100mg	118-08-1	Alkaloids
ASB-00003088	Hydroxycamptothecin, 10	RG	10mg	19685-09-7	Alkaloids
ASB-00008624	Hydroxymitragynine, 7-(P)	P	1 mg, 5 mg	174418-82-7	Alkaloids
ASB-00008875	Hyoscyamine, L	P	10mg, 50mg	101-31-5	Alkaloids
ASB-00008900	Hypaconitine	P	5mg, 10mg, 50mg	6900-87-4	Alkaloids
ASB-00008920	Hypoxanthine	RG	1g	68-94-0	Alkaloids
ASB-00009085	Indole	RG	5g	120-72-9	Alkaloids
ASB-00009181	Indole-3-Carbinol	P	100mg, 250mg	700-06-1	Alkaloids
ASB-00009230	Isocorydine HCl, (+)	P	10mg	13552-72-2	Alkaloids
ASB-00009417	Isomitraphylline	P	10mg	4963-01-3	Alkaloids
ASB-00019384	Isorhynchophylline	P	10mg	6859-01-4	Alkaloids
ASB-00010150	Jatrorrhizine	P	1mg, 5mg, 10mg	3621-38-3	Alkaloids
ASB-00010200	Jervine	P	10mg	469-59-0	Alkaloids
ASB-00012073	Lappaconitine	P	50mg	32854-75-4	Alkaloids
ASB-00012075	Laudanosine, DL	AS	1g, 50mg, 250mg	1699-51-0	Alkaloids
ASB-00012119	Leonurine Hydrochloride	P	10mg	24735-18-0	Alkaloids
ASB-00012321	Lobeline HCl, A	P	10mg	134-63-4	Alkaloids
ASB-00012370	Lucigenin	RG	10mg, 25mg	2315-97-1	Alkaloids
ASB-00013163	Melamine	P	50mg, 100mg	108-78-1	Alkaloids
ASB-00013171	Melatonin	AS	250mg	73-31-4	Alkaloids
ASB-00013170	Melatonin Compendial Traceable	P	10mg, 50mg, 100mg, 250mg	73-31-4	Alkaloids
ASB-00013218	Mesaconitine	AS	5mg, 10mg	2752-64-9	Alkaloids
ASB-00013497	Methylcytisine, N	P	5mg	486-86-2	Alkaloids

Part Number	Standard	Grade	Sizes	CAS Number	Chemical Family
ASB-00013661	Methyltyramine, N	P	5mg, 10mg	370-98-9	Alkaloids
ASB-00013890	Mitragynine	P	10mg, 25mg	4098-40-2	Alkaloids
ASB-00013955	Mitraphylline	P	5mg, 10mg	509-80-8	Alkaloids
ASB-00013891	Monocrotalin(Crotalin)	RG	5mg	315-22-0	Alkaloids
ASB-00014235	Neocuproine	RG	10mg	484-11-7	Alkaloids
ASB-00015480	Oxymatrine	P	5mg, 10mg, 25mg	16837-52-8	Alkaloids
ASB-00016049	Palmatine Chloride	P	10mg, 25mg, 100mg	10605-02-4	Alkaloids
ASB-00016055	Panthenol, D	P	1g, 100mg	81-13-0	Alkaloids
ASB-00016087	Paynantheine	AS	1mg, 5mg	4697-66-9	Alkaloids
ASB-00016439	Phenylephrine HCl (Metasynephrine)	P	50mg, 100mg, 250mg	61-76-7	Alkaloids
ASB-00016459	Phenylethylamine HCl (Pea)	P	50mg, 100mg, 200mg	156-28-5	Alkaloids
ASB-00016869	Piperine	P	10mg, 25mg, 100mg	94-62-2	Alkaloids
ASB-00016870	Piperine	RG	100mg	94-62-2	Alkaloids
ASB-00016881	Piperlongumine	P	10mg, 25mg	20069-09-4	Alkaloids
ASB-00003137	Pseudocapsaicin (Nonivamide)	P	10mg, 25mg, 100mg	2444-46-4	Alkaloids
ASB-00017180	Quinidine	RG	1g	56-54-2	Alkaloids
ASB-00018040	Reserpine	P	10mg, 25mg, 100mg	50-55-5	Alkaloids
ASB-00018140	Retrorsine	AS	5mg, 10mg	480-54-6	Alkaloids
ASB-00018425	Rutaecarpine	P	5mg, 10mg, 25mg	84-26-4	Alkaloids
ASB-00018955	Saccharin	P	100mg, 250mg	81-07-2	Alkaloids
ASB-00019043	Sanguinarine	RG	1mg	2447-54-3	Alkaloids
ASB-00019045	Sanguinarine Chloride	AS	10mg	5578-73-4	Alkaloids
ASB-00019089	Scopolamine HBr	RG	10mg, 250mg	114-49-8	Alkaloids
ASB-00019135	Senecionine	AS	5mg, 10mg	130-01-8	Alkaloids
ASB-00019140	Seneciphyllin	AS	5mg, 10mg	480-81-9	Alkaloids
ASB-00019139	Senkirkin (Renardine)	AS	5mg	2318-18-5	Alkaloids
ASB-00019190	Serpentine Hydrogen Tartrate	RG	5mg, 10mg	58782-36-8	Alkaloids
ASB-00019280	Sinomenine Hydrochloride	P	5mg, 10mg, 25mg	6080-33-7	Alkaloids
ASB-00019308	Solanidine (Solatubine)	AS	10mg	80-78-4	Alkaloids
ASB-00019316	Solanine, Alpha	AS	5mg, 10mg	20562-02-1	Alkaloids
ASB-00019295	Sparteine, (+)	RG	1g	492-08-0	Alkaloids
ASB-00019046	Speciociliatine	AS	1mg, 5mg	14382-79-7	Alkaloids
ASB-00019373	Strychnine	P	100mg, 250mg	57-24-9	Alkaloids
ASB-00019368	Stylopine, (-)	P	10mg, 25mg	84-39-9	Alkaloids
ASB-00019445	Synephrine	P	50mg, 100mg	94-07-5	Alkaloids
ASB-00019446	Synephrine	AS	1g, 100mg	94-07-5	Alkaloids
ASB-00019460	Syrosingopine	RG	10mg, 20mg	84-36-6	Alkaloids

Part Number	Standard	Grade	Sizes	CAS Number	Chemical Family
ASB-00020005	Tabersonine	AS	5mg	4429-63-4	Alkaloids
ASB-00020155	Tetrahydroberberine(Canadine)	P	5mg, 10mg, 20mg	522-97-4	Alkaloids
ASB-00020175	Tetrahydropalmatine, DL	P	10mg, 25mg, 50mg	2934-97-6	Alkaloids
ASB-00020173	Tetrahydropalmatine, L	P	10mg, 25mg	483-14-7	Alkaloids
ASB-00020206	Tetrandrine	P	10mg, 25mg, 100mg	518-34-3	Alkaloids
ASB-00020248	Theobromine	P	10mg, 100mg, 200mg	83-67-0	Alkaloids
ASB-00020256	Theophylline	P	10mg, 100mg, 200mg	58-55-9	Alkaloids
ASB-00020294	Tomatine	P	10mg, 25mg	17406-45-0	Alkaloids
ASB-00020340	Topotecan HCl	P	10mg, 25mg	119413-54-6	Alkaloids
ASB-00020515	Tryptamine	P	1g, 250mg	61-54-1	Alkaloids
ASB-00020589	Tuberostemonine	P	5mg, 10mg	6879-01-2	Alkaloids
ASB-00020601	Tyramine HCl	P	50mg, 100mg	60-19-5	Alkaloids
ASB-00021220	Uncarine C	P	5mg, 10mg	5629-60-7	Alkaloids
ASB-00021230	Uncarine D	P	1mg	4697-68-1	Alkaloids
ASB-00021235	Undec-2-Ene-8,10-Diynoic Acid Isobutylamide	P	5mg, 10mg	99615-81-3	Alkaloids
ASB-00021250	Uracil	P	1g, 250mg	66-22-8	Alkaloids
ASB-00022325	Vasicine HCl	AS	10mg	7174-27-8	Alkaloids
ASB-00022342	Verarine	P	5mg, 10mg, 25mg	6684-78-2	Alkaloids
ASB-00022345	Veratramine	P	25mg	60-70-8	Alkaloids
ASB-00022460	Veratrine HCl	RG	5mg	17666-25-0	Alkaloids
ASB-00022516	Vicine	AS	5mg	152-93-2	Alkaloids
ASB-00022531	Vinpocetine	P	25mg, 100mg	42971-09-5	Alkaloids
ASB-00022955	Voacangine	AS	10mg	510-22-5	Alkaloids
ASB-00024050	Xanthopterin	RG	25mg, 100mg	119-44-8	Alkaloids

*Tristan Richard, Hamza Temsamani, Emma Cantos-Villar, Jean-Pierre Monti, Chapter Two - Application of LC-MS and LC-NMR Techniques for Secondary Metabolite Identification, Editor(s): Dominique Rolin, Advances in Botanical Research, Academic Press, Volume 67, 2013, Pages 67-98, ISSN 0065-2296, ISBN 9780123979223, <https://doi.org/10.1016/B978-0-12-397922-3.00002-2>. (<https://www.sciencedirect.com/science/article/pii/B9780123979223000022>)

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