

Dr. Duke's Phytochemical and Ethnobotanical Databases

Chemicals found in Astragalus membranaceus

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
2	MOLYBDENUM	Root	0.1	10.0	2.6325714919134473	Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
0	FIBER(CRUDE)	Root		200000.0	2.6242208163218135	--
0	FIBER(DIETARY)	Root		600000.0	2.2013712801434733	--
65	MAGNESIUM	Root	800.0	5000.0	1.297512854456367	--
0	WATER	Root		840000.0	0.4631102003256906	--
0	ASH	Root	12800.0	80000.0	0.35526479427075014	--
0	RUBIDIUM	Root	11.0	13.0	0.0	Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
0	FAT	Root	3200.0	20000.0	-0.09603792277020924	--
4	SILICON	Root	3.2	20.0	-0.2510309186692663	--
0	GUM	Root	16000.0	100000.0	-0.2627053187642807	--
60	SELENIUM	Root	0.2	1.0	-0.29131634494743897	--
12	COPPER	Root	1.0	9.0	-0.30116857246091955	--
0	PROTEIN	Root	14400.0	90000.0	-0.3190660925574092	--
1	SODIUM	Root	64.0	400.0	-0.32652648701580106	--
15	RIBOFLAVIN	Root	0.4	2.5	-0.3445770066726076	--
24	CHROMIUM	Root	0.3	0.8	-0.40048877739295385	Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
6	IRON	Root	3.2	20.0	-0.4125973953033244	--
28	CALCIUM	Root	560.0	3500.0	-0.42742749848868644	--
0	THIAMINE	Root	0.3	2.0	-0.46176774546761545	--
2	COBALT	Root	0.4	2.5	-0.4909460027790993	--
4	PHOSPHORUS	Root	104.0	650.0	-0.5038891291778125	--
14	POTASSIUM	Root	1280.0	8000.0	-0.5695891878357887	--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
77	ZINC	Root	0.8	5.0	-0.8399576796962069	--
39	NIACIN	Root				--
47	BETA-SITOSTEROL	Root				Chemical Constituents of Oriental Herbs (3 diff. books)
0	ASTRASIEVERSIANIN-I-XVI	Root				Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
14	SUCROSE	Root				Chemical Constituents of Oriental Herbs (3 diff. books)
0	7,3'-DIHYDROXY-9,10-DIMETHOXYPTEROCARPANE	Root				Chemical Constituents of Oriental Herbs (3 diff. books)
4	ISOFERULIC-ACID	Root				Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
0	9,10-DIMETHOXYPTEROCARPAN-3-O-BETA-D-GLUCOSIDE	Root				Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
0	ISOASTRAGALOSIDE-I	Root				Chemical Constituents of Oriental Herbs (3 diff. books)
0	ASTRAPTEROCARPAN	Root				Chemical Constituents of Oriental Herbs (3 diff. books)
0	ASTRAMEMBRANIN-II	Plant				Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
0	SOYASAPONIN-I	Root				Chemical Constituents of Oriental Herbs (3 diff. books)
0	3-O_BETA-DXYLOPYRANOSYL-25-O-BETA-D-GLUCOPYRANOSYL-CYCLOASTRAGENOL	Plant				--
8	GLUTAMIC-ACID	Root				Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
0	6AR,11AR-10-HYDROXY-3,9-DIMETHOXYPTEROCARPAN	Root				Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	ASTRAMEMBRANAGENIN	Plant				J.S. Glasby Dict.Plis Containing 2ndary Metabolite. 1991.
3	ASTRAMEMBRANIN-I	Plant				Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
0	3'-HYDROXYFORMONONETIN	Root				Chemical Constituents of Oriental Herbs (3 diff. books)
0	FREE-AMINO-ACIDS	Root	5000.0	12600.0		Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
0	2'-HYDROXY-3',4'-DIMETHOXY-ISOFALVONE-7-O-BETA-D-GLUCOSIDE	Root				Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
22	GABA	Root				Chemical Constituents of Oriental Herbs (3 diff. books)
0	ASTRAISOFLAVAN	Root				Chemical Constituents of Oriental Herbs (3 diff. books)
7	RHAMNOCITRIN	Root				Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
0	ASTRAGALUS-SAPONIN-III	Root				Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
0	2',3'-DIHYDROXY-7,4'-DIMETHOXYISOFLAVONE	Root				Chemical Constituents of Oriental Herbs (3 diff. books)
23	FOLIC-ACID	Root				Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
16	FORMONONETIN	Root				--
0	ASTRAGALOSIDE-VII	Root				Chemical Constituents of Oriental Herbs (3 diff. books)
176	QUERCETIN	Root				Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.

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0	ASTRAGALUS-SAPONIN-II	Root				Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
14	MANGANESE	Root				--
0	(3R)-(-)-7,2'-DIHYDROXY-3',4'-DIMETHYLISOFLAVAN7-O-BETA-D-GLUCOPYR...	Plant				--
61	FERULIC-ACID	Root				Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
1	D-GLUCOSE	Root				Chemical Constituents of Oriental Herbs (3 diff. books)
0	ASTRAGALOSIDE-VI	Root				Chemical Constituents of Oriental Herbs (3 diff. books)
0	PROLINE	Root				Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
0	ASTRAGALUS-SAPONIN-I	Root				Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
0	CYCLOGALEGINOSIDE-B	Root				Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
0	D-FRUCTOSE	Root				Chemical Constituents of Oriental Herbs (3 diff. books)
0	ASTRAGALOSIDE-V	Root				Chemical Constituents of Oriental Herbs (3 diff. books)
3	ASPARTIC-ACID	Root				Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
0	LINOLENIC-ACID	Root				Chemical Constituents of Oriental Herbs (3 diff. books)
0	CYCLOGALEGINOSIDE-A	Root				Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.

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2	L-3-HYDROXY-9-METHOXYPTEROCARPAN	Root				Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
53	BETA-CAROTENE	Root				--
0	ASTRAGALOSIDE-IV	Root				Chemical Constituents of Oriental Herbs (3 diff. books)
2	ASPARAGINE	Root				Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
27	LINOLEIC-ACID	Root				Chemical Constituents of Oriental Herbs (3 diff. books)
57	COUMARIN	Root				Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
20	CHOLINE	Root				Chemical Constituents of Oriental Herbs (3 diff. books)
0	KUMATAKENIN	Root	11.0	13.0		Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
14	CANAVANINE	Root				Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
0	ASTRAGALOSIDE-III	Root				--
14	ARGININE	Root				Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
28	ISOLIQUIRITIGENIN	Root				Chemical Constituents of Oriental Herbs (3 diff. books)
77	CHLOROGENIC-ACID	Root				Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
0	CALYCOSIN	Root				Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.

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112	ASCORBIC-ACID	Root				--
0	ASTRAGALOSIDE-II	Root				Chemical Constituents of Oriental Herbs (3 diff. books)
75	KAEMPFEROL	Root				Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
3	ALANINE	Root				Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
0	ISOASTRAGALOSIDE-IV	Root				--
14	BETAINE	Root				Chemical Constituents of Oriental Herbs (3 diff. books)
102	CAFFEIC-ACID	Root				Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
0	ASTRAGALOSIDE-I	Root				Chemical Constituents of Oriental Herbs (3 diff. books)
11	ISORHAMNETIN	Root				Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
0	ACETYL-ASTRAGALOSIDE-I	Root				Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
0	ISOASTRAGALOSIDE-II	Root				Chemical Constituents of Oriental Herbs (3 diff. books)