

Dr. Duke's Phytochemical and Ethnobotanical Databases

Chemicals found in Astragalus membranaceus

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	2'-HYDROXY-3',4'-DIMETHOXY-ISOFLAVONE-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)
57	COUMARIN	Root				Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
0	ASTRAISOFLAVAN	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.
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)
16	FORMONONETIN	Root				--
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	ASTRAGALOSIDE-VII	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.
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				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
1	D-GLUCOSE	Root				Chemical Constituents of Oriental Herbs (3 diff. books)
0	ASTRAGALOSIDE-VI	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	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	D-FRUCTOSE	Root				Chemical Constituents of Oriental Herbs (3 diff. books)
0	ASTRAGALOSIDE-V	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.
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)
53	BETA-CAROTENE	Root				--
0	ASTRAGALOSIDE-IV	Root				Chemical Constituents of Oriental Herbs (3 diff. books)
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.
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)
20	CHOLINE	Root				Chemical Constituents of Oriental Herbs (3 diff. books)

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
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				--
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.
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)
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	CALYCOSIN	Root				Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
112	ASCORBIC-ACID	Root				--
0	ASTRAGALOSIDE-II	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.
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)
176	QUERCETIN	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
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)
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.
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)
47	BETA-SITOSTEROL	Root				Chemical Constituents of Oriental Herbs (3 diff. books)
39	NIACIN	Root				--
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	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-DIMETHOXYPTEROCARPANINE	Root				Chemical Constituents of Oriental Herbs (3 diff. books)
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	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)

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
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				--
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.
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.
0	ASTRAMEMBRANAGENIN	Plant				J.S. Glasby Dict.Pls Containing 2ndary Metabolite. 1991.
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.
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)
77	ZINC	Root	0.8	5.0	-0.8399576796962069	--
14	POTASSIUM	Root	1280.0	8000.0	-0.5695891878357887	--
4	PHOSPHORUS	Root	104.0	650.0	-0.5038891291778125	--
2	COBALT	Root	0.4	2.5	-0.4909460027790993	--
0	THIAMINE	Root	0.3	2.0	-0.46176774546761545	--
28	CALCIUM	Root	560.0	3500.0	-0.42742749848868644	--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
6	IRON	Root	3.2	20.0	-0.4125973953033244	--
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.
15	RIBOFLAVIN	Root	0.4	2.5	-0.3445770066726076	--
1	SODIUM	Root	64.0	400.0	-0.32652648701580106	--
0	PROTEIN	Root	14400.0	90000.0	-0.3190660925574092	--
12	COPPER	Root	1.0	9.0	-0.30116857246091955	--
60	SELENIUM	Root	0.2	1.0	-0.29131634494743897	--
0	GUM	Root	16000.0	100000.0	-0.2627053187642807	--
4	SILICON	Root	3.2	20.0	-0.2510309186692663	--
0	FAT	Root	3200.0	20000.0	-0.09603792277020924	--
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	ASH	Root	12800.0	80000.0	0.35526479427075014	--
0	WATER	Root		840000.0	0.4631102003256906	--
65	MAGNESIUM	Root	800.0	5000.0	1.297512854456367	--
0	FIBER(DIETARY)	Root		600000.0	2.2013712801434733	--
0	FIBER(CRUDE)	Root		200000.0	2.6242208163218135	--
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.