Dr. Duke's Phytochemical and Ethnobotanical Databases

Chemicals found in Psoralea esculenta

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Refernce Citation
5	STARCH	Root		698400.0	1.6007596580757903	Izadoost, M. & Robinson, T., Synergism & antagonism in the pharmacology of alkaloidal plants, pp 137-58 in Craker, L. & Simon, J., eds., Herbs, Spices & Medicinal Plants: Recent Advances in Botany, Horticulture & Pharmacology, v. 2, 1987, 255pp.
0	WATER	Root		569800.0	-1.3054184969218292	Izadoost, M. & Robinson, T., Synergism & antagonism in the pharmacology of alkaloidal plants, pp 137-58 in Craker, L. & Simon, J., eds., Herbs, Spices & Medicinal Plants: Recent Advances in Botany, Horticulture & Pharmacology, v. 2, 1987, 255pp.
0	PROTEIN	Root	70000.0	422000.0	3.409131521332618	--
15	FIBER	Root		160300.0	1.6031775245509974	Izadoost, M. & Robinson, T., Synergism & antagonism in the pharmacology of alkaloidal plants, pp 137-58 in Craker, L. & Simon, J., eds., Herbs, Spices & Medicinal Plants: Recent Advances in Botany, Horticulture & Pharmacology, v. 2, 1987, 255pp.
0	SUGARS	Root		56000.0	-0.46345897598657404	Izadoost, M. & Robinson, T., Synergism & antagonism in the pharmacology of alkaloidal plants, pp 137-58 in Craker, L. & Simon, J., eds., Herbs, Spices & Medicinal Plants: Recent Advances in Botany, Horticulture & Pharmacology, v. 2, 1987, 255pp.
0	FAT	Root		36800.0	0.4642183510921967	Izadoost, M. & Robinson, T., Synergism & antagonism in the pharmacology of alkaloidal plants, pp 137-58 in Craker, L. & Simon, J., eds., Herbs, Spices & Medicinal Plants: Recent Advances in Botany, Horticulture & Pharmacology, v. 2, 1987, 255pp.

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Refernce Citation
8	GLUTAMIC-ACID	Root	4093.0	12319.0	-0.24618850192770889	Izadoost, M. & Robinson, T., Synergism & antagonism in the pharmacology of alkaloidal plants, pp 137-58 in Craker, L. & Simon, J., eds., Herbs, Spices & Medicinal Plants: Recent Advances in Botany, Horticulture & Pharmacology, v. 2, 1987, 255pp.
3	ASPARTIC-ACID	Root		8989.0	-0.12529813542162352	Izadoost, M. & Robinson, T., Synergism & antagonism in the pharmacology of alkaloidal plants, pp 137-58 in Craker, L. & Simon, J., eds., Herbs, Spices & Medicinal Plants: Recent Advances in Botany, Horticulture & Pharmacology, v. 2, 1987, 255pp.
14	ARGININE	Root		7976.0	-0.13966357077072894	Izadoost, M. & Robinson, T., Synergism & antagonism in the pharmacology of alkaloidal plants, pp 137-58 in Craker, L. & Simon, J., eds., Herbs, Spices & Medicinal Plants: Recent Advances in Botany, Horticulture & Pharmacology, v. 2, 1987, 255pp.
28	CALCIUM	Root		5100.0	-0.25219862800666226	Izadoost, M. & Robinson, T., Synergism & antagonism in the pharmacology of alkaloidal plants, pp 137-58 in Craker, L. & Simon, J., eds., Herbs, Spices & Medicinal Plants: Recent Advances in Botany, Horticulture & Pharmacology, v. 2, 1987, 255pp.
14	POTASSIUM	Root		2800.0	-0.950351027609914	Izadoost, M. & Robinson, T., Synergism & antagonism in the pharmacology of alkaloidal plants, pp 137-58 in Craker, L. & Simon, J., eds., Herbs, Spices & Medicinal Plants: Recent Advances in Botany, Horticulture & Pharmacology, v. 2, 1987, 255pp.

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Refernce Citation
4	LYSINE	Root		2743.0	-0.9122845852689443	Izadoost, M. & Robinson, T., Synergism & antagonism in the pharmacology of alkaloidal plants, pp 137-58 in Craker, L. & Simon, J., eds., Herbs, Spices & Medicinal Plants: Recent Advances in Botany, Horticulture & Pharmacology, v. 2, 1987, 255pp.
2	LEUCINE	Root		2448.0	-1.1054856671779698	Izadoost, M. & Robinson, T., Synergism & antagonism in the pharmacology of alkaloidal plants, pp 137-58 in Craker, L. & Simon, J., eds., Herbs, Spices & Medicinal Plants: Recent Advances in Botany, Horticulture & Pharmacology, v. 2, 1987, 255pp.
8	TYROSINE	Root		1899.0	-0.17837081183908945	Izadoost, M. & Robinson, T., Synergism & antagonism in the pharmacology of alkaloidal plants, pp 137-58 in Craker, L. & Simon, J., eds., Herbs, Spices & Medicinal Plants: Recent Advances in Botany, Horticulture & Pharmacology, v. 2, 1987, 255pp.
1	SERINE	Root		1857.0	-0.8477773168438192	Izadoost, M. & Robinson, T., Synergism & antagonism in the pharmacology of alkaloidal plants, pp 137-58 in Craker, L. & Simon, J., eds., Herbs, Spices & Medicinal Plants: Recent Advances in Botany, Horticulture & Pharmacology, v. 2, 1987, 255pp.
3	VALINE	Root		1730.0	-1.3628009569966921	Izadoost, M. & Robinson, T., Synergism & antagonism in the pharmacology of alkaloidal plants, pp 137-58 in Craker, L. & Simon, J., eds., Herbs, Spices & Medicinal Plants: Recent Advances in Botany, Horticulture & Pharmacology, v. 2, 1987, 255pp.

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Refernce Citation
4	THREONINE	Root		1477.0	-0.6686077570935165	Izadoost, M. & Robinson, T., Synergism & antagonism in the pharmacology of alkaloidal plants, pp 137-58 in Craker, L. & Simon, J., eds., Herbs, Spices & Medicinal Plants: Recent Advances in Botany, Horticulture & Pharmacology, v. 2, 1987, 255pp.
65	MAGNESIUM	Root		1400.0	-0.6180639973504805	Izadoost, M. & Robinson, T., Synergism & antagonism in the pharmacology of alkaloidal plants, pp 137-58 in Craker, L. & Simon, J., eds., Herbs, Spices & Medicinal Plants: Recent Advances in Botany, Horticulture & Pharmacology, v. 2, 1987, 255pp.
3	ISOLEUCINE	Root		1308.0	-1.1265020949594515	Izadoost, M. & Robinson, T., Synergism & antagonism in the pharmacology of alkaloidal plants, pp 137-58 in Craker, L. & Simon, J., eds., Herbs, Spices & Medicinal Plants: Recent Advances in Botany, Horticulture & Pharmacology, v. 2, 1987, 255pp.
7	HISTIDINE	Root		1266.0	-0.5123372941537173	Izadoost, M. & Robinson, T., Synergism & antagonism in the pharmacology of alkaloidal plants, pp 137-58 in Craker, L. & Simon, J., eds., Herbs, Spices & Medicinal Plants: Recent Advances in Botany, Horticulture & Pharmacology, v. 2, 1987, 255pp.
0	PROLINE	Root		1266.0	-0.45674580251724606	Izadoost, M. & Robinson, T., Synergism & antagonism in the pharmacology of alkaloidal plants, pp 137-58 in Craker, L. & Simon, J., eds., Herbs, Spices & Medicinal Plants: Recent Advances in Botany, Horticulture & Pharmacology, v. 2, 1987, 255pp.

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Refernce Citation
7	PHENYLALANINE	Root		1224.0	-1.5000612282384893	Izadoost, M. & Robinson, T., Synergism & antagonism in the pharmacology of alkaloidal plants, pp 137-58 in Craker, L. & Simon, J., eds., Herbs, Spices & Medicinal Plants: Recent Advances in Botany, Horticulture & Pharmacology, v. 2, 1987, 255pp.
3	ALANINE	Root		1139.0	-1.1338259353336928	Izadoost, M. & Robinson, T., Synergism & antagonism in the pharmacology of alkaloidal plants, pp 137-58 in Craker, L. & Simon, J., eds., Herbs, Spices & Medicinal Plants: Recent Advances in Botany, Horticulture & Pharmacology, v. 2, 1987, 255pp.
12	GLYCINE	Root		1097.0	-1.2748284115330988	Izadoost, M. & Robinson, T., Synergism & antagonism in the pharmacology of alkaloidal plants, pp 137-58 in Craker, L. & Simon, J., eds., Herbs, Spices & Medicinal Plants: Recent Advances in Botany, Horticulture & Pharmacology, v. 2, 1987, 255pp.
2	CYSTINE	Root		802.0	-0.1542935815414598	Izadoost, M. & Robinson, T., Synergism & antagonism in the pharmacology of alkaloidal plants, pp 137-58 in Craker, L. & Simon, J., eds., Herbs, Spices & Medicinal Plants: Recent Advances in Botany, Horticulture & Pharmacology, v. 2, 1987, 255pp.
0	CYSTINE-(HALF)	Root		802.0	-1.0	--
29	TRYPTOPHAN	Root		633.0	-0.6811462438487825	Izadoost, M. & Robinson, T., Synergism & antagonism in the pharmacology of alkaloidal plants, pp 137-58 in Craker, L. & Simon, J., eds., Herbs, Spices & Medicinal Plants: Recent Advances in Botany, Horticulture & Pharmacology, v. 2, 1987, 255pp.

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Refernce Citation
4	PHOSPHORUS	Root		500.0	-0.5302455262265966	Izadoost, M. & Robinson, T., Synergism & antagonism in the pharmacology of alkaloidal plants, pp 137-58 in Craker, L. & Simon, J., eds., Herbs, Spices & Medicinal Plants: Recent Advances in Botany, Horticulture & Pharmacology, v. 2, 1987, 255pp.
15	METHIONINE	Root		253.0	-1.4297421953570428	Izadoost, M. & Robinson, T., Synergism & antagonism in the pharmacology of alkaloidal plants, pp 137-58 in Craker, L. & Simon, J., eds., Herbs, Spices & Medicinal Plants: Recent Advances in Botany, Horticulture & Pharmacology, v. 2, 1987, 255pp.
112	ASCORBIC-ACID	Root	4.0	171.0	-0.5482223747594329	--
6	IRON	Root		39.0	-0.38499437605375375	Izadoost, M. & Robinson, T., Synergism & antagonism in the pharmacology of alkaloidal plants, pp 137-58 in Craker, L. & Simon, J., eds., Herbs, Spices & Medicinal Plants: Recent Advances in Botany, Horticulture & Pharmacology, v. 2, 1987, 255pp.
53	BETA-CAROTENE	Root	0.0	1.0	-0.43002798118623115	Izadoost, M. & Robinson, T., Synergism & antagonism in the pharmacology of alkaloidal plants, pp 137-58 in Craker, L. & Simon, J., eds., Herbs, Spices & Medicinal Plants: Recent Advances in Botany, Horticulture & Pharmacology, v. 2, 1987, 255pp.
3	CYNAROSIDE	Leaf				Ockendon, D. J., Alston, R. E., Naifeh, K. 1966. The Flavonoids of Psoralea (Leguminosae). Phytochemistry, 5: 601-608.
0	GLUTAMIC	Plant				--
18	VITEXIN	Leaf				Ockendon, D. J., Alston, R. E., Naifeh, K. 1966. The Flavonoids of Psoralea (Leguminosae). Phytochemistry, 5: 601-608.

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Refernce Citation
3	VICENIN	Leaf				Ockendon, D. J., Alston, R. E., Naifeh, K. 1966. The Flavonoids of Psoralea (Leguminosae). Phytochemistry, 5: 601-608.
0	LUCENIN	Leaf				Ockendon, D. J., Alston, R. E., Naifeh, K. 1966. The Flavonoids of Psoralea (Leguminosae). Phytochemistry, 5: 601-608.
4	ISOVITEXIN	Leaf				Ockendon, D. J., Alston, R. E., Naifeh, K. 1966. The Flavonoids of Psoralea (Leguminosae). Phytochemistry, 5: 601-608.
4	ISOORIENTIN	Leaf				Ockendon, D. J., Alston, R. E., Naifeh, K. 1966. The Flavonoids of Psoralea (Leguminosae). Phytochemistry, 5: 601-608.
0	ISOLUTONARIN	Leaf				Ockendon, D. J., Alston, R. E., Naifeh, K. 1966. The Flavonoids of Psoralea (Leguminosae). Phytochemistry, 5: 601-608.
0	ISOFLAVONE-GLYCOSIDE	Leaf				Ockendon, D. J., Alston, R. E., Naifeh, K. 1966. The Flavonoids of Psoralea (Leguminosae). Phytochemistry, 5: 601-608.