

**Dr. Duke's Phytochemical and Ethnobotanical Databases**

**Chemicals found in *Lupinus mutabilis***

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Refernce Citation
0	(+)-LUPANINE	Seed				--
4	(-)-SPARTEINE	Seed				--
0	ASH	Seed	35000.0	39000.0	-0.26709277199518927	--
0	ASH	Fruit	8000.0	28000.0	-0.7422580290226741	--
53	BETA-CAROTENE	Seed	1.3	1.5	-0.33554468481174715	--
53	BETA-CAROTENE	Fruit	0.3	1.0	-0.14886764714786266	--
28	CALCIUM	Seed	900.0	1000.0	-0.5778647843915501	--
28	CALCIUM	Fruit	280.0	980.0	-0.6637329250251514	--
0	CARBOHYDRATES	Fruit	90000.0	315000.0	-2.5020037781179627	--
0	CARBOHYDRATES	Seed	299000.0	334000.0	-0.7527229518827593	--
0	FAT	Seed	140000.0	240000.0	-0.13372552418655537	--
0	FAT	Fruit	51000.0	178000.0	0.7182975924499655	--
15	FIBER	Seed	88000.0	98000.0	-0.29041186552077364	--
15	FIBER	Fruit	6000.0	21000.0	-1.138760341922171	--
6	IRON	Seed	55.0	60.0	-0.4218525745566078	--
6	IRON	Fruit	19.0	66.0	-0.26568397107756236	--
0	KILOCALORIES	Seed	4070.0	4675.0	-0.14383795137333108	--
0	KILOCALORIES	Fruit	1260.0	4405.0	1.1306879253198954	--
39	NIACIN	Seed	25.0	29.0	-0.4156665552918073	--
39	NIACIN	Fruit	8.0	28.0	-0.4371170279447218	--
4	PHOSPHORUS	Seed	6350.0	7100.0	0.4615671013893586	--
4	PHOSPHORUS	Fruit	1680.0	5875.0	0.807645721612481	--
0	PROTEIN	Seed	410000.0	510000.0	2.4569770193242495	--
0	PROTEIN	Fruit	137000.0	479000.0	4.953327745874761	--
15	RIBOFLAVIN	Seed	4.4	4.9	0.5272746510341323	--
15	RIBOFLAVIN	Fruit	1.5	5.2	0.04084171538244231	--
21	SPARTEINE	Seed				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Refernce Citation
31	THIAMIN	Seed	4.7	5.2	-0.33023404492310365	--
31	THIAMIN	Fruit	0.9	3.1	-0.2857986533698326	--
0	WATER	Seed	77000.0	104000.0	-0.4743320003294758	--
0	WATER	Fruit		714000.0	-0.24599659825480744	--