

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

**Chemicals Found in *Lupinus albus***

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
4	(-)-SPARTEINE	Seed	--	--		
3	2'-HYDROXYGENISTEIN	Leaf	--	--		
3	ALANINE	Seed	12960	14470	0.9170226228696556	
12	ALLANTOIN	Sprout Seedling	--	--		
14	ARGININE	Seed	38770	44400	0.8366943841656878	
2	ASPARAGINE	Seed	116340	116340	1	
3	ASPARTIC-ACID	Seed	38770	43290	1.837744307856741	
28	CALCIUM	Seed	1760	1965	-0.40063486459844927	
1	CEPHALIN	Seed	--	--		
23	CITRIC-ACID	Seed	--	--		
12	COPPER	Seed	10	12	-0.2552864959153795	
2	CYSTINE	Seed	4460	4980	1.2731259245727116	
2	ERUCIC-ACID	Seed	930	1040	-0.8043698886448047	
15	FIBER	Seed	137700	153600	0.1486152305024654	
81	GENISTEIN	Hypocotyl	--	--		
8	GLUTAMIC-ACID	Seed	21650	96985	2.3319656034068434	
12	GLYCINE	Seed	15390	17185	0.9011559745223087	
4	GLYCOLIC-ACID	Seed	--	--		

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
7	HISTIDINE	Seed	10300	11500	1.4291755119543776	
6	IRON	Seed	43	49	-0.47296194458454466	
3	ISOLEUCINE	Seed	16150	18030	0.9619171054456013	
7	LAURIC-ACID	Seed	80	90	-0.5115240190533513	
20	LECITHIN	Seed	--	--		
2	LEUCINE	Seed	19000	30625	1.2963725792058691	
27	LINOLEIC-ACID	Seed	19950	22275	-0.726979204211212	
3	LUPANINE	Seed	40	140		
21	LUPEOL	Seed	--	--		
4	LYSINE	Seed	19330	21585	1.2849819611491902	
65	MAGNESIUM	Seed	1980	2200	-0.2947807573698167	
15	MALIC-ACID	Seed	--	--		
15	METHIONINE	Seed	2550	2850	-0.3782387935104158	
13	MUFA	Seed	39400	43990	-0.473371922127144	
6	MYRISTIC-ACID	Seed	130	145	-0.2941050421963658	
39	NIACIN	Seed	22	24	-0.5653371145111872	
18	OLEIC-ACID	Seed	35580	39725	-0.6525373870116628	
9	OXALIC-ACID	Seed	--	--		
13	PALMITIC-ACID	Seed	7420	8275	-0.5288609495059398	

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2	PALMITOLEIC-ACID	Seed	340	380	-0.28934587512665705	
7	PHENYLALANINE	Seed	14350	16025	0.5355372674604459	
4	PHOSPHORUS	Seed	4400	4900	-0.11980273674659814	
2	PIPECOLIC-ACID	Stem	--	--		
14	POTASSIUM	Seed	10130	11300	-0.11169307962545023	
4	PUFA	Seed	24390	27235	-0.5985454209700596	
15	RIBOFLAVIN	Seed	2	3	-0.20090831129253928	
1	SERINE	Seed	18690	20870	1.9731747072660002	
1	SODIUM	Seed	150	165	-0.4537924180538136	
21	SPARTEINE	Seed	--	--		
8	STEARIC-ACID	Seed	3160	3525	-0.4889095101170368	
7	SUCCINIC-ACID	Seed	--	--		
31	THIAMIN	Seed	6	7	0.09921569102976133	
4	THREONINE	Seed	13310	14860	1.503797204218498	
15	TRIGONELLINE	Sprout Seedling	--	--		
29	TRYPTOPHAN	Seed	2890	3225	-0.03413492710997161	
8	TYROSINE	Seed	13600	15185	1.7243762054005387	
3	VALINE	Seed	15100	16860	0.5971360116437736	
28	VANILLIN	Seed	--	--		

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
77	ZINC	Seed	47	53	0.22337262467547583	