

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

**Chemicals Found in Cucumis sativus**

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
3	ALANINE	Fruit	180	4557	0.3338773864261125	
10	ALPHA-AMYRIN	Seed	--	--		
15	ALPHA-LINOLENIC-ACID	Fruit	290	7342	2.1724404516030447	
2	ALPHA-SPINASTEROL	Leaf	--	--		
32	ALPHA-TOCOPHEROL	Fruit	0.4	38	-0.5367101816950582	
5	ALUMINUM	Fruit	0.4	21000	5.885833318950578	
14	ARGININE	Fruit	340	8608	1.1465010817681804	
2	ARSENIC	Fruit	0.003	0.25	-0.21654171036784842	
3	ASPARTIC-ACID	Fruit	320	8101	-0.2703146366727064	
9	BETA-AMYRIN	Fruit	--	--		
53	BETA-CAROTENE	Fruit	0.3	8	-0.1353367732684366	
47	BETA-SITOSTEROL	Fruit	--	--		
4	BORON	Fruit	1	46	0.1222486962141608	
6	BUTYRIC-ACID	Seed	1200	1700	1	
3	CADMIUM	Fruit	0.001	0.56	1.0021740613461552	
102	CAFFEIC-ACID	Fruit	--	--		
28	CALCIUM	Fruit	129	10000	1.4177256416739774	
2	CAMPESTEROL	Seed	--	--		

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77	CHLOROGENIC-ACID	Fruit	--	--		
24	CHROMIUM	Fruit	0.002	0.98	-0.3699842533152147	
5	CITRULLINE	Fruit	146	146	-0.5746297706203566	
2	COBALT	Fruit	--	0.14	-0.5181669214483248	
12	COPPER	Fruit	0.3	42	2.2711446321363473	
1	CUCURBITACIN-A	Fruit	--	--		
8	CUCURBITACIN-B	Fruit	--	--		
1	CUCURBITACIN-C	Fruit	--	--		
4	CUCURBITACIN-D	Sprout Seedling	--	--		
6	CUCURBITACIN-E	Fruit	--	--		
6	CUCURBITACIN-I	Sprout Seedling	--	--		
3	CUCURBITIN	Seed	--	--		
7	CYCLOARTENOL	Seed	--	--		
3	CYCLOEUCALENOL	Seed	--	--		
2	CYSTINE	Fruit	30	759	-0.28403141091999273	
1	D-GLUCOSE	Petiole	--	--		
1	EUPHOL	Seed	--	--		
61	FERULIC-ACID	Fruit	--	--		
15	FIBER	Fruit	6000	151896	0.09643723539079915	

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15	FOLACIN	Fruit	0.12	4	0.7981014854579249	
8	GLUTAMIC-ACID	Fruit	1540	38987	2.0038454905378824	
12	GLYCINE	Fruit	190	4810	0.46630098595660957	
5	HEXANAL	Fruit	--	--		
7	HISTIDINE	Fruit	80	2025	0.2190230238739625	
6	IRON	Fruit	2.6	420	1.1385386189145708	
3	ISOLEUCINE	Fruit	170	4303	0.19978803988901708	
4	ISOORIENTIN	Leaf	--	--		
2	LEUCINE	Fruit	230	5822	0.15324421263715543	
27	LINOLEIC-ACID	Fruit	220	5570	-0.276815619660369	
27	LINOLEIC-ACID	Seed	66900	170468	0.5427531321495487	
27	LINOLEIC-ACID	Cotyledon	35100	486700	0.16004066347331836	
11	LITHIUM	Fruit	0.236	0.56	-0.35272233657199653	
21	LUPEOL	Seed	--	--		
4	LYSINE	Fruit	220	5570	0.3769731526577118	
1	LYSOLECITHIN	Seed	--	--		
65	MAGNESIUM	Fruit	101	7000	2.255214803313825	
14	MANGANESE	Fruit	0.5	98	0.24266172597201985	
1	MERCURY	Fruit	--	0.05	1.5022592233491507	

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
15	METHIONINE	Fruit	40	1012	0.06585691674907745	
2	MOLYBDENUM	Fruit	0.1	2.8	0.07594172929462323	
13	MUFA	Fruit	30	759	-0.2429565204346204	
6	MYRISTIC-ACID	Fruit	10	253	-0.25720822246577785	
39	NIACIN	Fruit	3	76	0.2045596708962314	
3	NICKEL	Fruit	0.01	1.25	-0.39931040719490674	
18	OLEIC-ACID	Fruit	20	506	-0.4768452498631273	
18	OLEIC-ACID	Seed	116100	180000	0.5006054750183081	
18	OLEIC-ACID	Cotyledon	55200	241000	0.9197508532724963	
13	PALMITIC-ACID	Cotyledon	213200	504700	0.47168815124356256	
13	PALMITIC-ACID	Fruit	270	6835	-0.2591291151198875	
13	PALMITIC-ACID	Seed	12420	20400	-0.2786828572805548	
11	PANTOTHENIC-ACID	Fruit	2.5	63	2.863724767267177	
2	PHOSPHATIDYL-CHOLINE	Seed	--	--		
4	PHOSPHORUS	Fruit	158	12600	2.850295798551741	
5	PHYLLOQUINONE	Plant	--	0.2	-0.5290630604221707	Booth, S. L., Suttie, J. W. 1998. Dietary intake and adequacy of vitamin K. J. Nutrition, 128(5): 785-788.
2	PHYTOSTEROLS	Fruit	14	3544	3.347761113336398	
14	POTASSIUM	Fruit	1465	72500	4.829199484968149	
4	PUFA	Fruit	510	12911	0.08474452002140845	

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
15	RIBOFLAVIN	Fruit	0.2	5.1	0.019425051003539688	
60	SELENIUM	Fruit	0.001	2.8	0.30814666605054625	
1	SERINE	Fruit	160	4051	0.14404511225564912	
4	SILICON	Fruit	10	1000	2.640529556399852	
3	SILVER	Fruit	0.01	0.14	-0.346219917377229	
1	SODIUM	Fruit	16	714	-0.11624296833452041	
1	SPERMIDINE	Seed	--	--		
10	SQUALENE	Fruit	--	--		
8	STEARIC-ACID	Cotyledon	28800	59100	-0.5870403836004546	
8	STEARIC-ACID	Fruit	30	759	-0.22888607015322318	
8	STEARIC-ACID	Seed	11100	69785	0.9487074907192428	
12	STIGMASTEROL	Plant	--	--		
14	SULFUR	Fruit	140	5250	2.669389597305318	
2	TARAXEROL	Seed	--	--		
31	THIAMIN	Fruit	0.3	7.6	0.29022515893825	
4	THREONINE	Fruit	150	3797	0.32394990867857487	
29	TRYPTOPHAN	Fruit	40	1012	0.22673133497320494	
8	TYROSINE	Fruit	90	2278	-0.058312784353005145	
3	VALINE	Fruit	170	4304	-0.030742813982143215	

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
77	ZINC	Fruit	2	157	3.8118341064131345	