

Presence of Compounds in Guaraná (*Paullinia cupana*)

Compound	Chemical type	Plant Part	Plant Origin	Quantity	Ref #
Adenine		Not Stated Seed	Not Stated Not Stated	Not Stated Not Stated	BK1002 ZZ1095
Allantoin		Seed	Not Stated	Not Stated	BK1007
Anethole	Phenylpropanoid	Seed Essential Oil	Germany	Not Stated	J11197
Benzene, 1-4-dimethyl	Benzenoid	Seed Essential Oil	Germany	Not Stated	J11197
Caffeine	Alkaloid	Seed	Brazil	Not Stated	K20643
		Seed	Brazil	Not Stated	M29919
		Seed	Not Stated	Not Stated	K11103
		Seed	Brazil	02.0-04.5%	K13202
		Seed	Brazil	Not Stated	J16577
		Seed	Brazil	Not Stated	L20928
		Seed	Brazil	Not Stated	M11957
		Seed	Brazil	00.91-3.24%	M12292
		Seed	Brazil	02.15%	K22551
		Seed	Brazil	03.0-4.5%	M29816
		Seed	Brazil	03.69-4.79%	M08151
		Seed	Brazil	04.28%	K28609
		Seed	Brazil	Not Stated	J18122
		Testa	Brazil	01.64%	K28609
		Pericarp	Brazil	00.02%	K28609
		Septa	Brazil	00.67%	K28609
		Arillus	Brazil	Not Stated	K28609
		Not Stated	Brazil	02.5%	W03499
		Seed Hulls	Not Stated	Not Stated	A2230B
		Seed	Not Stated	25,000-76,000 ppm	ZZ1095
		Seed	Germany	3.6-5.8%	BK1012

Compound	Chemical type	Plant Part	Plant Origin	Quantity	Ref #
Caffeine (continued)	Alkaloid	Leaf	Not Stated	0.38%	BK1014
		Bark	Not Stated	0.98%	BK1014
		Seed	Not Stated	4.4%	BK1014
		Stem wood	Not Stated	0.19%	BK1014
		Root rind	Not Stated	1.74%	BK1014
		Kernals	Not Stated	4.8%	BK1015
		Seed	Not Stated	3.91%	BK1016
		Seed paste	Not Stated	2.29%	BK1016
		Leaf	Not Stated	0.38%	BK1016
		Root	Not Stated	0.27-1.74%	BK1016
		Stem	Not Stated	0.17%	BK1016
Carvacrol	Monoterpene	Seed Essential Oil	Germany	Not Stated	J11197
Caryophyllene	Sesquiterpene	Seed Essential Oil	Germany	Not Stated	J11197
Catechin, (+)	Flavonoid	Seed	Brazil	Not Stated	J16577
Catechin, d	Flavonoid	Not Stated	Not Stated	Not Stated	BK1002
		Seed	Not Stated	Not Stated	ZZ1095
Catechin, epi: (-)	Flavonoid	Seed	Brazil	Not Stated	J16577
Catechutannic acid	Tannin	Not Stated	Not Stated	Not Stated	BK1008
		Seed	Not Stated	Not Stated	ZZ1095
Choline		Not Stated	Not Stated	Not Stated	BK1002
		Seed	Not Stated	Not Stated	ZZ1095
Copaene, alpha	Sesquiterpene	Seed Essential Oil	Germany	Not Stated	J11197
Estragole	Phenylpropanoid	Seed Essential Oil	Germany	Not Stated	J11197
Glucose		Seed	Japan	Not Stated	BK1013
Guanine		Not Stated	Not Stated	Not Stated	BK1002
		Seed	Not Stated	Not Stated	ZZ1095
Guaranine	Tetramethylxanthine	Seed	Not Stated	Not Stated	ZZ1052
		Not Stated	Not Stated	Not Stated	BK1010
		Seed	Not Stated	3-5%	BK1004
		Not Stated	Not Stated	Not Stated	BK1018

Compound	Chemical type	Plant Part	Plant Origin	Quantity	Ref #
Hypoxanthine	Alkaloid	Not Stated Seed	Not Stated Not Stated	Not Stated Not Stated	BK1002 ZZ1095
Limonene	Monoterpene	Seed Essential Oil	Germany	Not Stated	J11197
Nicotinic acid		Seed	Not Stated	Not Stated	BK1033
Phenol, 4-(dimethyl-propyl)	Benzenoid	Seed Essential Oil	Germany	Not Stated	J11197
Proanthocyanidins		Seed	Germany	10.7-11.7%	BK1011
Protein	Inorganic	Seed	Not Stated	98,600 ppm	ZZ1095
Salicylic acid		Seed	Not Stated	Not Stated	BK1033
Theobromine	Alkaloid	Seed	Brazil	Not Stated	J16577
		Seed	Brazil	Not Stated	K13202
		Seed	Brazil	Not Stated	J18122
		Seed	Brazil	00.015%	K28609
		Seed	Brazil	00.02-0.04%	M08151
		Seed	Brazil	Traces	M29816
		Testa	Brazil	00.027%	K28609
		Pericarp	Brazil	00.203%	K28609
		Septa	Brazil	00.217%	K28609
		Arillus	Brazil	Not Stated	K28609
		Seed	Not Stated	330 ppm	ZZ1095
		Seed	Germany	0.03-0.17%	BK1012
		Leaf	Not Stated	1.2%	BK1014
		Bark	Not Stated	0.15%	BK1014
		Flower	Not Stated	1.54%	BK1016
		Peduncle	Not Stated	0.38%	BK1016
		Leaf	Not Stated	1.2%	BK1016
		Stem	Not Stated	0.98%	BK1016
		Flower	Not Stated	0.38-1.54%	BK1016

Compound	Chemical type	Plant Part	Plant Origin	Quantity	Ref #
Theophylline	Alkaloid	Seed	Brazil	Not Stated	J16577
		Seed	Brazil	Not Stated	M29919
		Seed	Brazil	Not Stated	K13202
		Seed	Brazil	Not Stated	J18122
		Seed	Brazil	Not Stated	M11957
		Seed	Brazil	00.01-0.13%	M12292
		Seed	Brazil	00.0-0.25%	M08151
		Seed	Brazil	00.007%	K28609
		Seed	Brazil	Traces	M29816
		Testa	Brazil	00.005%	K28609
		Pericarp	Brazil	00.001%	K28609
		Septa	Brazil	00.084%	K28609
		Arillus	Brazil	Not Stated	K28609
		Seed	Not Stated	570 ppm	ZZ1095
		Seed	Germany	0.02-0.06%	BK1012
Timbonine	Saponin	Not Stated	Not Stated	Not Stated	BK1010
		Seed	Not Stated	Not Stated	ZZ1095
Xanthine	Alkaloid	Not Stated	Not Stated	Not Stated	BK1002
		Seed	Not Stated	Not Stated	ZZ1095

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