

# **P** Paullinia cupana

## Common Name(s)

Guarana

## How Used

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Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference	Citation
11	ADENINE	Seed --	--		Leung, A.Y., Encyclopedia of Common Natural Ingredients Used in Food, Drugs, and Cosmetics, John Wiley & Sons, New York, 1980.	
0	ASH	Seed 14200	14200	-1.0130179951090181	Abstract (See species file)	
62	CAFFEINE	Seed 9100	76000	2.1618276788021022		
62	CAFFEINE	Plant --	25000			
22	CATECHOL	Seed --	--			
0	CATECHUTANNIC-ACID	Seed --	--		CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses	
20	CHOLINE	Seed --	--		CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses	
4	D-CATECHIN	Seed --	--		Leung, A.Y., Encyclopedia of Common Natural Ingredients Used in Food, Drugs, and Cosmetics, John Wiley & Sons, New York, 1980.	
0	FAT	Seed 30000	30000	-1.2398706410167792	Leung, A.Y., Encyclopedia of Common Natural Ingredients Used in Food, Drugs, and Cosmetics, John Wiley & Sons, New York, 1980.	

Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
1	GUANINE	Seed	--	--	Leung, A.Y., Encyclopedia of Common Natural Ingredients Used in Food, Drugs, and Cosmetics, John Wiley & Sons, New York, 1980.
0	GUARANINE	Seed	--	--	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
0	HYPOXANTHINE	Seed	--	--	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
3	MUCILAGE	Seed	--	--	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
0	PROTEIN	Seed	98600	98600	-1.2026390357015075 Abstract (See species file)
0	RESIN	Seed	70000	70000	-0.33623537990712626 Leung, A.Y., Encyclopedia of Common Natural Ingredients Used in Food, Drugs, and Cosmetics, John Wiley & Sons, New York, 1980.
0	SAPONIN	Seed	--	--	
5	SAPONINS	Seed	--	--	Leung, A.Y., Encyclopedia of Common Natural Ingredients Used in Food, Drugs, and Cosmetics, John Wiley & Sons, New York, 1980.
5	STARCH	Seed	50000	60000	-1.0130056604761712 Leung, A.Y., Encyclopedia of Common Natural Ingredients Used in Food, Drugs, and Cosmetics, John Wiley & Sons, New York, 1980.
35	TANNIN	Seed	50000	120000	0.49709318567481553
21	THEOBROMINE	Seed	200	400	-0.470226048103343
36	THEOPHYLLINE	Seed	--	2500	0.5308861743508416
0	TIMBONINE	Seed	--	--	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
1	XANTHINE	Seed	--	--	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses