

INSOLENT [LABS]

PRODUCT SPECIFICATIONS

Product: GUARANA, DRY EXTRACT, 22% CAFFEINE

Product Code: N20107627

Botanical name: *Paullinia cupana Kunth*

Plant Part Used: Seed

Excipients: Caffeine

Description: Fine powder with characteristic odor and taste.**

ANALYSIS	SPECIFICATION	METHODS
Assay (%)	Min 22,0 Caffeine	HPLC
Loss on drying (%)	≤ 5,0	Eu. Pharm c.v. (2.8.17)
Bulk density (g/ml)	≥ 0,3	Eu. Pharm c.v. (2.9.34)
Particle size (%)	Min 90% < 250 microns	Eu. Pharm c.v. (2.9.12)
Residual solvents		
Ethanol (ppm)	< 5000	Eu. Pharm c.v. (2.4.24)
Microbiology		
TAMC (cfu/g)	≤ 1000	Eu. Pharm c.v. (2.6.12)
TYMC (cfu/g)	≤ 100	Eu. Pharm c.v. (2.6.12)
Bile-tolerant gram-negative bacteria (cfu/g)	≤ 100	Eu. Pharm c.v. (2.6.31)
Escherichia coli (1 g)	Absence	Eu. Pharm c.v. (2.6.31)
Salmonella (25 g)	Absence	Eu. Pharm c.v. (2.6.31)
Polycyclic aromatic hydrocarbons (PAHs) *		
Benzo(a)pyrene (ppb)	≤ 10	GC - MS
PAH4 (Sum of (benzo(a)pyrene, benz(a)anthracene, benzo(b)fluoranthene and chrysene (ppb)	≤ 50	GC-MS
Heavy metals*		
Lead (ppm)	≤ 3,0	Eu. Pharm. v.v. (2.4.27)
Arsenic (ppm)	≤ 2,0	Eu. Pharm. v.v. (2.4.27)
Mercury (ppm)	≤ 0,1	Eu. Pharm. v.v. (2.4.27)
Cadmium (ppm)	≤ 1,0	Eu. Pharm. v.v. (2.4.27)
Pesticides*	According to Regulation (EC) N° 396/2005 and amendments	SANTE/12682/2019

Storage: Store in dry place and keep away from strong light and heat

Observations: * These parameters are determined in every three batches and at least once a year according to the sampling plan established in our HACCP system. **This is an herbal product; therefore, it is subject to color variations from batch to batch derived from natural, raw material color deviations. Color change has no effect on the quality, purity, potency, chemical profile or efficacy of the product.