

Certificate of Analysis

GREEN TEA PE 98% POLYPHENOLS - 95201191

Batch N°: D104/027/A12

Ref.

ED175067

GRE-17

	SPECIFICATIONS	METHODS	RESULTS
Organoleptic Quality :			
Appearance:	Powder	Visual: (CQ-MO-148)	Conform
Color :	Green to brown	Visual: (CQ-MO-148)	Conform
Flavor :	Characteristic	Sensory: (CQ-MO-148)	Conform
Analytical Quality :			
Identification (TLC) :	Camellia sinensis	TLC: (QC-SOP-070)	Conform
Polyphenols content (as EGCG) :	> 97 % by Folin-Ciocalteu	Folin-Ciocalteu as EGCG	98.90
Catechins content :	> 65 % by HPLC	HPLC: (CQ-MO-138)	68.00
EGCG content :	> 38 % by HPLC	HPLC: (CQ-MO-138)	40.50
Caffeine content :	< 0.5 % by HPLC	HPLC: (CQ-MO-138)	0.20
Loss on drying :	< 6 %	I.R. balance: (CQ-MO-018)	1.70
pH (1% in water) :	3 - 6	pH-meter: (CQ-MO-123)	4.81
Particle size :	100 % through 40 mesh	Sieve: (CQ-MO-023)	100
Bulk density :	> 0.4 g/ml	Densimeter: (CQ-MO-257)	0.50
Ash :	< 0.5 %	Oven: (CQ-MO-049)	Conform
Arsenic content :	< 2 ppm*	ICP-OES: (CQ-MO-247)	Conform
Cadmium content :	< 1 ppm*	ICP-OES: (CQ-MO-247)	Conform
Lead content :	< 2 ppm*	ICP-OES: (CQ-MO-247)	Conform
Mercury content :	< 0.5 ppm*	ICP-OES: (CQ-MO-247)	Conform
Residual ethanol content :	< 0.1 %*	GC: (CQ-MO-168)	Conform
Residual ethyl acetate content :	< 50 ppm*	GC: (CQ-MO-168)	Conform
Benzopyrene content :	< 10 ppb*	External laboratory	Conform
Pesticide residues :	Complies with USP <561>*	USP <561>	Conform
Synthetic dyes :	None detected (< 5 ppm)	External laboratory	Pending
Irradiation detection :	Not irradiated (PPSL<700)	PPSL	150
Screened Molecules :	See list (1) on last page		
Microbiological Quality :			
Total plate count :	< 1,000 cfu/g	Count: (CQ-MO-231)	< 10 cfu/g
Yeasts and molds :	< 100 cfu/g	Count: (CQ-MO-244)	< 10 cfu/g
Coliforms :	< 10 cfu/g*	Count: (External lab.)	< 10 cfu/g
E.coli :	Negative / g*	Count: (External lab.)	Negative / g
Salmonella :	Negative / 25 g*	Count: (External lab.)	Negative / 25 g
Staphylococcus aureus :	Negative / g*	Count: (External lab.)	Negative / g
Description :			
Botanical name: Camellia sinensis			
Plant part used: leaf			
Extraction solvent: water 30% / ethanol 70% then ethyl acetate 100%			
Extract ratio: 15 / 1			

Synthetic dyes: Analyses performed on all sub-batches that compose the final batch
*Conform with our specifications, analysis performed once a year.

Manufacturing date : April 13, 2012

Expiry date : April 11, 2014 .

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Date of issue : April 13, 2012

TALLADA Laura
LABORATORY SUPERVISOR



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List of screened molecules (1) :			
Alachlor :	< 0.02 ppm*	USP <561>	< 0.02 ppm
Aldrin and Dieldrin (sum of) :	< 0.05 ppm*	USP <561>	< 0.05 ppm
Azinfos-methyl :	< 1.00 ppm*	USP <561>	< 1.00 ppm
Brompropylat :	< 3.00 ppm*	USP <561>	< 3.00 ppm
Chlordane (sum of isomers cis-, trans- and oxychlordane) :	< 0.05 ppm*	USP <561>	< 0.05 ppm
Chlorfenvinphos :	< 0.50 ppm*	USP <561>	< 0.50 ppm
Chlorpyrifos :	< 0.20 ppm*	USP <561>	< 0.20 ppm
Chlorpyrifos-methyl :	< 0.10 ppm*	USP <561>	< 0.10 ppm
Cypermethrin (and isomers) :	< 1.00 ppm*	USP <561>	< 1.00 ppm
DDT (sum of p,p'-DDT, o,p'-DDT and Total DDT) :	< 1.00 ppm*	USP <561>	< 1.00 ppm
Deltamethrin :	< 0.50 ppm*	USP <561>	< 0.50 ppm
Diazinon :	< 0.50 ppm*	USP <561>	< 0.50 ppm
Dichlorvos :	< 1.00 ppm*	USP <561>	< 1.00 ppm
Dithiocarbamates (in CS2) :	< 2.00 ppm*	USP <561>	< 2.00 ppm
Endosulfan (sum of isomers and of endosulfan sulfate) :	< 3.00 ppm*	USP <561>	< 3.00 ppm
Endrin :	< 0.05 ppm*	USP <561>	< 0.05 ppm
Ethion :	< 2.00 ppm*	USP <561>	< 2.00 ppm
Formothion :	< 0.50 ppm*	USP <561>	< 0.50 ppm
Fenvalerate :	< 1.50 ppm*	USP <561>	< 1.50 ppm
Fonofos :	< 0.05 ppm*	USP <561>	< 0.05 ppm
Heptachlor :	< 0.05 ppm*	USP <561>	< 0.05 ppm
Hexachlorobenzene :	< 0.10 ppm*	USP <561>	< 0.10 ppm
Hexachlorocyclohexane (alpha, beta, delta) :	< 0.30 ppm*	USP <561>	< 0.30 ppm
Lindane (gamma-hexachlorocyclohexane) :	< 0.60 ppm*	USP <561>	< 0.60 ppm
Malathion :	< 1.00 ppm*	USP <561>	< 1.00 ppm
Methidathion :	< 0.20 ppm*	USP <561>	< 0.20 ppm
Parathion (-ethyl) :	< 0.50 ppm*	USP <561>	< 0.50 ppm
Paraoxon (-ethyl) :	< 0.20 ppm*	USP <561>	< 0.20 ppm
Permethrin (cis, trans, total) :	< 1.00 ppm*	USP <561>	< 1.00 ppm
Pyridaben :	< 0.10 ppm*	USP <561>	< 0.10 ppm
Piperonyl butoxide :	< 3.00 ppm*	USP <561>	< 3.00 ppm
Pirimiphos-methyl :	< 4.00 ppm*	USP <561>	< 4.00 ppm
Pyrethrins (sum of) :	< 3.00 ppm*	USP <561>	< 3.00 ppm
Quintozene (sum of quintozene, pentachloroaniline and methylpentachlorophenyl sulfide) :	< 1.00 ppm*	USP <561>	< 1.00 ppm