NATURE SCIENCE TECHNOLOGIES

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QUALITY SPECIFICATION

Green Tea Extract

Catalog No.: NST-8-16

CAS No.: 84650-60-2

Source: *Camellia sinensis*

Part used: leaf

Shelf life: 24 months

No.	Parameter	Specification	Method
1.	Appearance	Fine powder	Visual
2.	Color	Brown	Visual
3.	Identification	Conforms	TLC
4.	Assay (Polyphenols)	≥98.0 %	UV
5.	Assay (EGCG)	≥45.0 %	HPLC
6.	Odor	Characteristic	Organoleptic
7.	Taste	Characteristic	Organoleptic
8.	Sulfated ash	≤5.0 %	Ph. Eur. 2.4.14
9.	Loss on drying	≤5.0 %	Ph. Eur. 2.8.17
10.	Mesh size/sieve	≥95 % pass 80 mesh	80 mesh
11.	Bulk density	≤0.8 g/ml	Density meter
12.	Solvent residues	Ph. Eur. 2.4.24	Ph. Eur. 2.4.24
13.	Pesticide residues	EC 396/2005	Third lab
14.	Ethylene oxide	EC 396/2005	HACCP
15.	Benzo[a]pyrene	(EU) 2023/915	HPLC
16.	PAHs	(EU) 2023/915	HPLC

17.	Heavy Metals	≤10 ppm	ICP-MS
18.	Lead	≤2 ppm	ICP-MS
19.	Arsenic	≤1 ppm	ICP-MS
20.	Mercury	≤0.1 ppm	ICP-MS
21.	Cadmium	≤1 ppm	ICP-MS
22.	TPC	$<10^3$ CFU/g	AOAC,BAM
23.	TYMC	$<10^2$ CFU/g	AOAC,BAM
24.	*Escherichia Coli*	Absent	AOAC,BAM
25.	*Salmonella*	Absent	AOAC,BAM
26.	*Staphylococcus aureus*	Absent	AOAC,BAM

Storage: store in a cool and dry place, keep away from strong light and heat

Stability: 24 months when properly stored