

CERTIFICATE OF ANALYSIS

ORGANIC GREEN TEA DRY EXTRACT
BIO = FR-BIO-01
Ref: PR 403

Batch: P21031123
Manufactured: 16.03.2021

Date: 2021, March 17th
Shelf life: 16.03.2023

CONTROLS	SPECIFICATIONS	RESULTS
<i>Botanical kind</i>	Organic <i>Theaceae Camellia sinensis</i> (L.) Kuntze	Standard
<i>Part of the plant</i>	Leaf	Standard
<i>Extraction solvent</i>	Water	Standard
<i>Description</i>		
<i>Appearance</i>	Fine powder	Powder
<i>Color</i>	Light greenish brown to dark greenish brown	Brown powder
<i>Odor</i>	Mild	Standard
<i>Taste</i>	Bitter	Standard
<i>Carrier</i>	Organic maltodextrin (1-20%)	Standard
<i>Solubility</i>	To be tested following the degree of incorporation	
<i>Bulk density</i> (Eur. Ph. VIII° Ed. 2.9.34)	0.30 - 0.70	0.40
<i>Loss on drying</i> (Eur. Ph. VIII° Ed. 2.8.17)	≤ 8.00%	1.74%
<i>pH</i> (Eur. Ph. VIII° Ed. 2.2.3)	4.0 - 6.5 (1% in demineralized water)	5.2
<i>Total ash</i> ⁽⁰¹⁾ (Eur. Ph. VIII° Ed. 2.4.16)	< 12.00%	2.16%
<i>Screening</i> (internal method)	Min 95% < 500 µm	Standard
<i>Heavy metals (Control plan)*</i> (ICP, internal method)		
<i>Pb</i>	< 3.00 ppm	Complies*
<i>Cd</i>	< 1.00 ppm	Complies*
<i>Hg</i>	< 0.10 ppm	Complies*
<i>Pesticides (Control plan)*</i> (GC-MSMS/LC-MSMS, internal method)	< detection limit	Complies*
<i>PAH (Control plan)*</i> <i>PAHs (sum of benzo(a)pyrene, benz(a)anthracene, benzo(b)fluoranthene and chrysene)</i> (GC-MS, internal method)	< 50 µg/kg	Complies*
<i>Benzo(a)pyrene</i> (GC-MS, internal method)	< 10 µg/kg	Complies*
Identification (on raw material) (Control plan)* (TLC, Eur. Ph. VIII° Ed. (2.2.27)) (= MO-77)	Complies with "Green tea" monograph Fr. Ph. XI° Ed. (2010)	Complies*

Tel. : +33 (0)1 60 16 69 25 – Fax. : +33 (0)1 60 16 69 37

Z.A.C. de la Noue Rousseau – 6 rue d'Alembert – CS 50006 – 91241 Saint Michel-sur-Orge Cedex – FRANCE
SAS au capital de 1.700.000 € - SIRET : 37755926500030 – RCS : Evry B 377 559 265 – APE 1089Z – TVA N° FR 77 377 559 265

CONTROLS

Assays

(HPLC, Fr. Ph. XI° Ed. (01/1994)
"Green coffee" monograph (adapted)) (= MO-48)
(HPLC, internal method)
(UV-Vis, Eur. Ph. VIII° Ed. (01/2008: 20814)
"Tannins in herbal drugs" monograph) (= MO-43)

Tests (Indicatives values) (Control plan)*

(HPLC, internal method)
(HPLC, internal method)
(HPLC, internal method)

SPECIFICATIONS

< 12.00% in Caffeine
12.00 - 30.00% Epigallocatechin gallate (EGCG)
> 25.00% Total polyphenols

Catechins (%)
Theanine (%)
Theophylline (%)

RESULTS

11.25%
20.74%
25.04%

Complies*
Complies*
Complies*

MICROBIOLOGY

(Eur. Ph. VIII° Ed. 2.6.12 and 2.6.31)

Total aerobic microbial count
Total yeasts/moulds count
Salmonella
Bile-tolerant Gram negative bacteria
Escherichia coli

< 10 000 CFU / g**
< 100 CFU / g**
Absent / 25g
< 100 CFU / g
Absent / g

1029 CFU / g
< 10 CFU / g
Absent / 25g
< 10 CFU / g
Absent / g

*HACCP based control plan defined annually according risk analysis.

**Acceptable maximal count: 5 times the acceptance criterion according to Eur. Ph. VIII° Ed. 5.1.8 Category B.

Storage: Keep in a dry and clean place, protected from light.

QUALITY CONTROL


Laboratory manager