

TECHNICAL DATA SHEET

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

CONTROLS

Botanical kind

Part of the plant

Extraction solvent

Description

Appearance

Color

Odor

Taste

Carrier

Solubility

Bulk density

(Eur. Ph. VIII° Ed. 2.9.34)

Loss on drying

(Eur. Ph. VIII° Ed. 2.8.17)

pH

(Eur. Ph. VIII° Ed. 2.2.3)

Total ash⁽⁰¹⁾

(Eur. Ph. VIII° Ed. 2.4.16)

Screening

(internal method)

*Heavy metals (Control plan)**

(ICP, internal method)

Pb

Cd

Hg

*Pesticides (Control plan)**

(GC-MSMS/LC-MSMS, internal method)

*PAH (Control plan)**

Pahs (sum of benzo(a)pyrene, benz(a)anthracene, benzo(b)fluoranthene and chrysene)

(GC-MS, internal method)

Benzo(a)pyrene

(GC-MS, internal method)

Identification (on raw material) (Control plan)*

(TLC, Eur. Ph. VIII° Ed. (2.2.27)) (= MO-77)

SPECIFICATIONS

Organic *Theaceae Camellia sinensis* (L.) Kuntze

Leaf

Water

Fine powder

Light greenish brown to dark greenish brown

Mild

Bitter

Organic maltodextrin (1-20%)

To be tested following the degree of incorporation

0.30 - 0.70

≤ 8.00%

3.5 - 5.5 (1% in demineralized water)

< 12.00%

Min 95% < 500 µm

< 3.00 ppm

< 1.00 ppm

< 0.10 ppm

< detection limit

< 50 µg/kg

< 10 µg/kg

Complies with "Green tea" monograph

Fr. Ph. XI° Ed. (2010)

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

Catechin and derivatives: total catechins (%)
Theanine (%)
Xanthine derivatives: theophylline (%)

MICROBIOLOGY

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

Total aerobic microbial count

< 10 000 CFU / g**

Total yeasts/moulds count

< 100 CFU / g**

Salmonella

Absent / 25g

Bile-tolerant Gram negative bacteria

< 100 CFU / g

Escherichia coli

Absent / g

*HACCP based control plan defined annually: one analysis on half finished product.

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

Complementary data:

- Complies with French decrees (2006-352 and 24th June 2014)

- According to Regulation 1999/3/EC, and its modifications, has not been ionized.

- According to the Regulations 2001/18/EC, 1829/2003 and 1830/2003, and its modifications, the above mentioned item does not contain deliberately added GMO. (fortuitous or technically inevitable traces could be detected at less than 0,9%)

- The above mentioned item does not contain TSE/BSE substances

- Shelf life and storage conditions: use within two years. Store in closed original packaging at 5 to 25°C in a dry place and protected from light.