

CERTIFICATE OF ANALYSIS

ORGANIC HORSE CHESTNUT DRY EXTRACT
BIO= FR-BIO-01
Ref: PR 2920

Batch: P20062906
Manufactured: 07.2020

Date: 2020, July 09th
Shelf life: 07.2022

CONTROLS	SPECIFICATIONS	RESULTS
<i>Botanical kind</i>	Organic <i>Sapindaceae Aesculus hippocastanum L.</i>	Standard
<i>Part of the plant</i>	Seed	Standard
<i>Extraction solvent</i>	Water	Standard
<i>Description</i>	Ecru to beige powder	Light brown powder
<i>Carrier</i>	Organic maltodextrin	Standard
<i>Solubility</i>	Water soluble	
<i>Bulk density</i> (<i>Eur. Ph. VIII° Ed. 2.9.34</i>)	0.30 - 0.70	0.55
<i>Loss on drying</i> (<i>Eur. Ph. VIII° Ed. 2.8.17</i>)	≤ 8.00%	3.72%
<i>pH</i> (<i>Eur. Ph. VIII° Ed. 2.2.3</i>)	3.0 - 6.5 (1% in demineralized water)	5.0
<i>Screening</i> (<i>Internal method</i>)	Min 95% < 500 µm	Standard
<i>Heavy metals (Control plan)*</i> (<i>ICP, internal method</i>)		
<i>Pb</i>	< 3.00 ppm	Complies*
<i>Cd</i>	< 1.00 ppm	Complies*
<i>Hg</i>	< 0.10 ppm	Complies*
<i>As</i>	< 1.00 ppm	Complies*
<i>Pesticides (Control plan)*</i> (<i>GC-MSMS/LC-MSMS, internal method</i>)	< detection limit	Complies*
<i>PAH (Control plan)*</i> <i>PaHs (sum of benzo(a)pyrene, benz(a)anthracene, benzo(b)fluoranthene and chrysene)</i> (<i>GC-MS, internal method</i>)	< 50 µg/kg	Complies*
<i>Benzo(a)pyrene</i> (<i>GC-MS, internal method</i>)	< 10 µg/kg	Complies*
<i>Identification (on raw material) (Control plan)*</i> (<i>TLC, Eur. Ph. VIII° Ed. (2.2.27)) (= MO-70)</i>)	Complies with "Horse chestnut" monograph <i>Fr. Ph. XI° Ed. (1995)</i>	Complies*
<i>Assay</i> (<i>UV-Vis, Fr. Ph. XI° Ed. (1992) "Horse chestnut extract (dry)" monograph (= MO-27)</i>)	4.00% to 6.00% anhydrous aescin	4.02%
<i>Test (Indicative value) (Control plan)*</i> (<i>HPLC, internal method</i>)	Esculin (ppm)	Complies*

CONTROLS

SPECIFICATIONS

RESULTS

MICROBIOLOGY

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

Total aerobic microbial count

< 10 000 CFU / g**

710 CFU / g

Total yeasts/moulds count

< 100 CFU / g**

< 10 CFU / g

Salmonella

Absent / 25g

Absent / 25g

Bile-tolerant Gram negative bacteria

< 100 CFU / g

< 10 CFU / g

Escherichia coli

Absent / g

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*

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

QUALITY CONTROL

Laboratory manager

