

Manufactured by:
Bio-Botanica Inc.
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Distributed by:
IMCD Australia Pty Ltd
Level 1, 352 Wellington Road
Mulgrave, VIC, 3170
Australia

Code#: 4321A

Product Specification

Product Description:

ITEM NAME: PE, Guarana 10:1, (10% Caffeine)

MANUFACTURER: Bio-Botanica, Inc.

BOTANICAL NAME: *Paullinia cupana*

PLANT PART: Seed

APPEARANCE: Fine, free-flowing powder

PARTICLE SIZE: $\geq 95\%$ through # 40 mesh

COLOR: Tan to light brown

AROMA: Characteristic, herbal

TASTE: Bitter

METHOD OF IDENTIFICATION: HPLC/UPLC

METHOD OF MANUFACTURE: Extract Dry Concentrate from Extraction by *Bio-Chelation®

SOLVENT FOR EXTRACTION: Methanol: Water 50:50

EXCIPIENT: Maltodextrin (corn derived), $<5\%$ Caramel Color (FCC 100% Caramel Color, CAS # 8028-89-5, GRAS)

SOLUBILITY: Soluble in water

RECOMMENDED STORAGE: Store in a cool dry place, away from excessive heat or freezing temperatures.

EXPIRATION: 4 Years

Physical:

IDENTIFICATION
MOISTURE
FOREIGN ORGANIC MATTER
BULK DENSITY
ASH
MESH SIZE (through # 40 mesh)
ASSAY: Caffeine
RESIDUAL SOLVENT
PESTICIDE RESIDUES

Method

COQCL-000020 / ID
COQCL-000100 / LOD
COQCL-000011 / Foreign Matter
COQCL-000013 / Density
COQCL-000012 / Ash
COQCL-000021 / Particle Size
COQCL-000041 / HPLC
COQCL-000014 / GC-MS
COTP-EURO- / USP<561>

Specification

Compares to Standard
 $\leq 5.00\%$ (2hrs @ 105° C)
 $\leq 0.02\%$
0.30 – 0.70 g/cc
 $\leq 5.00\%$
 $\geq 95.00\%$
 $\geq 10.00\%$
Meets USP Requirements
Meets USP Requirements

Chemical:

ARSENIC (As)
CADMIUM (Cd)
LEAD (Pb)
MERCURY (Hg)

Method

COQCL-000095 / ICP-MS
COQCL-000095 / ICP-MS
COQCL-000095 / ICP-MS
COQCL-000095 / ICP-MS

Specification

≤ 1.5 ppm
 ≤ 0.5 ppm
 ≤ 0.5 ppm
 ≤ 0.2 ppm

Microbial:

TOTAL AEROBIC COUNT
YEAST & MOLD COUNT
SALMONELLA
E. COLI
STAPH. AUREUS
ENTEROBACTERIACAE

Method

COQCL-000501 / BioLumix
COQCL-000501 / BioLumix
COQCL-000501 / BioLumix
COQCL-000501 / BioLumix
COQCL-000501 / BioLumix
COQCL-000502 / AOAC

Specification

$<5,000$ cfu/g
 <100 cfu/g
Absent in 10 g
Absent in 10 g
Absent in 10 g
Negative

*Bio-Chelation® is a registered trademark of Bio-Botanica Inc. Bio-Chelation® is a propriety cold extraction process.

Rev.2 (2/27/2022)

Sophia Khan 2/27/2023
Sophia Khan QA and Regulatory Analyst

“Where Science brings out the best in Nature”