

SPECIFICATION

| General Information | |
|-----------------------------|---|
| Product: | GUARANA EXTRACT 10% natural caffeine |
| Process/Manufacture: | Extraction, Vacuum Concentration, Pasteurization and Spray Drying |
| Botanical Source: | Paullinia cupana |
| Family: | Sapindaceae |
| Origin: | Brazil (Region Bahia) |
| Carrier: | Maltodextrine |
| Article No: | 0038-100-N |
| Used Part: | Seeds |
| Solubility: | Water |
| Irradiation: | Free |

BASIC ANALYSIS

| Analysis | Description | Test Method |
|--------------------|-------------------------|-------------|
| Appearance | Fine Hygroscopic Powder | Visual |
| Color* | Light brown | Visual |
| Flavor/Odor | Characteristic | Gustatory |
| Moisture | Max. 6% | DIN 10772-2 |
| pH 25°C | 4,5 – 5,5 | DIN 10776 |
| Solubility | Soluble in Water | Visual |
| Density | 400 - 800 g/l | Internal |
| Caffeine | > 10 % | HPLC |

* The color may vary naturally depending on ripeness, seasons, climate and geographical area of raw material.

MICROBIOLOGICAL ANALYSIS

| Analysis | Limit/Specification | Test Method |
|------------------------------|---------------------|-----------------------|
| Total aerobes germs | < 1.000 CFU/g | DIN EN ISO 4833-1a |
| Yeast and Mold | < 100 CFU/g | § 64 LFGB L 01.00-37a |
| Total Coliform | < 10 MPN/g | Fluorocult |
| Escherichia Coli | Absent in 1g | Fluorocult |
| Staphylococcus Aureus | Absent in 1 g | DIN EN ISO 6888-1a |
| Salmonella | Absent in 25 g | § 64 LFGB L 00.00-20a |

GUARANTEES

| Quality | Declaration |
|-----------------------|--|
| GMO | GMO free, does not contain genetically modified organisms (GMOs) as defined in EC 1829/2003 and 1830/2003 |
| Pesticides | No Pesticides used for the planting and farming process (conform to § 64 LFGB L 00.00-115 + VO396/2005) |
| Allergens | No Allergens, in compliance with Regulation (EU) Nr. 1169/2011, Appendix II |
| Gluten | Gluten-free |
| Lactose | Lactose-free |
| Vegan | The product does not contain animal derivatives and has not been exposed during the production process to additives having been in contact with animals. |
| Kosher / HALAL | Certification on request |
| Heavy metals | conform to VO 1881/2006 and 629/2008 |

ADDITIONAL INFORMATION

| | |
|---------------------------|---|
| Storage Conditions | Keep the original package in a fresh, dry place away from direct sunlight. Hygroscopic product. |
| Shelf Life | The product stability is 24 month from date of manufacture in it's original packaging. |
| Packing | Net weight - 15 kg bag |