



SPECIFICATION SHEET

PRODUCT: **AmaTeaMax®**

Ingredient Contents: Guayusa Extract

Product Description

An extract of polyphenolic antioxidants from guayusa leaves containing natural plant based antioxidants. AmaTea® is 100% guayusa leaves; it contains no excipients, carriers or active agents.

Standardized For: Chlorogenic Acids / Caffeine / Catechins

Manufactured with: 100% Guayusa (*Genus: Ilex*)

| | Specification | Method ID |
|---------------------------|-------------------|----------------------------|
| Appearance | Brown Powder | visual |
| Loss on Drying | <3% | USP <40> |
| Chlorogenic Acids | 30%+/-4.5% | (1) |
| Caffeine Content | 20%+/-2.5% | (1) |
| Lead | < 0.25 ppm | ICP-MS AOAC 2013.06 |
| Solubility | > 95.0 w/w% | (2) |
| Arsenic | < 0.15 ppm | ICP-MS AOAC 2013.06 |
| Cadmium | < 2.5 ppm | ICP-MS AOAC 2013.06 |
| Mercury | < 1.5 ppm | ICP-MS AOAC 2013.06 |
| Heavy Metals | < 20 ppm | ICP-MS AOAC 2013.06 |
| <i>E. coli</i> | negative / 25 g | USP <62> |
| Total Coliform | < 10 MPN / g | AOAC, 966.24, MPN, FDA BAM |
| <i>Salmonella</i> | negative / 375 g | USP <62> |
| <i>Staphylococcus</i> | negative / 25 g | USP <62> |
| Yeast & Mold | < 100 colonies /g | USP <61> |
| Aerobic Total Plate Count | < 5,000 CFU/g | AOAC 990.12, FDA BAM |
| Residual Solvents | < 400 ppm | USP <467> |

Meets the microbe requirements of the United States Pharmacopoeia.

(1) Method of analysis HPLC, FCC

(2) Internal AFS SOP-04-008, Ref for 0.50 w/w% solution

Main characteristics

AmaTea® polyphenolic extract is odorless with a slight tea flavor.

Solubility in water : > .60 gram / 200 ml (20°C)

Bulk density : ~ .50 +/- .05 g/ml

There is no evidence to demonstrate or suggest a hazard when employed at levels that are currently in use.

Allergen

The AFS Guayusa Leaf Extract, AmaTea®, is **free** from the following known allergens:

| | | |
|----------|--------------------|--------|
| Milk | Eggs | Sesame |
| Fish | Shellfish / Shrimp | |
| Nuts | Wheat | |
| Soybeans | Lactose | |

For the full list of free allergens please refer to AFS AmaTea® Allergen Statement.

Packing

Available in 5 or 25 kg fiber or food grade plastic drums with polyethylene bags.

Storage

Highly hygroscopic. Store in well-closed containers in a dry place at ambient temperature (15-20°C). Material should be re-tested after storage for two years.

Sterilization

Non-contact steam heat in drying operation.

Applications

Pharma & Nutritional Supplements

AmaTea® polyphenolic *Ilex guayusa* extract is a natural-derived plant extract rich in antioxidants and caffeine for use in tablet or capsule or powder form.

Conventional Foods and Beverages

AmaTea® polyphenolic *Ilex* extract is a 100% naturally derived extract from guayusa leaves. It allows formulators to add beneficial antioxidants and naturally derived caffeine to conventional foods and beverages without negatively impacting the sensory characteristics of the final product.