Cumaru Extract

BIOTARA

INCI Name: Dipteryx Odorata Seed Extract

Technical Sheet

General Information

Cumaru Extract (Dipteryx odorata) is a natural extract obtained through maceration and percolation of the seeds, bark, and pods of the Cumaru tree, native to the Amazon rainforest. Known for its rich coumarin content, it possesses a warm vanilla-almond aroma and delivers strong antioxidant, anti-inflammatory, and soothing benefits. This extract is sustainably sourced from traditional Brazilian communities.

Key Properties

- Solid at temperatures below 76 degrees F / 25 degrees C;
- It has an aroma reminiscent of vanilla or almond liqueur;
- Green color;
- Rich in lipids, fatty acids and antioxidant compounds;
- It has an anti-inflammatory and hair tonic action;
- See the specification sheet for the fatty acid composition;
- Soluble in ethanol, diethyl ether and chloroform and insoluble in water;

Personal Care Applications

Cumaru Extract is ideal for:

- Perfumes and fragrances
- Skin and hair care formulations
- Soothing balms and tonics
- Medicinal and aromatherapeutic preparations

Recommended use: 1–100%
Shelf life: 12 months
Standard packaging: Available in buckets and drums

Uses & Benefits

Skin & Hair Care

- Promotes smooth and hydrated skin
- Acts as a natural antioxidant to fight premature aging
- Strengthens hair and enhances shine
- Reduces irritation and scalp inflammation

Medicinal Benefits

Cumaru has long been used in traditional medicine to treat arthritis, tuberculosis, ulcers, sinusitis, pneumonia, and skin wounds. Its anti-inflammatory properties help relieve intestinal and uterine cramps, while its antiseptic and soothing effects make it beneficial for topical care.

Perfumery

Coumarin, the key compound in Cumaru Extract, is one of the most valuable ingredients in perfumery due to its warm, vanilla-like scent. It is commonly used in natural and artisanal perfumes, as well as incense and fine fragrances.

Background

The Cumaru tree (Dipteryx odorata) produces seeds containing up to 43.6% of a light yellow, aromatic oil rich in coumarin. Traditionally, water extracts of the bark have been used as tonics and antispasmodics, stimulating circulation and aiding respiratory relief. BioTara ensures sustainable sourcing through local cooperatives that harvest, process, and extract Cumaru within their native communities. (CAS number 90028-06-1).

Specifications – Cumaru Extract

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Analytical Details	Method	Specification
Appearance	Organoleptic	Viscous liquid, may become pasty at low temperatures
Color	Organoleptic	Green
Odor	Organoleptic	Vanilla/almond characteristic
Density (20–25 °C)	AOCS CC 10C-95	0.920 – 0.935 g/mL
Free Fatty Acids (oleic)	AOCS CD3D-63	<10%
Refractive Index (ND40)	AOCS CC7-25	1.4631 – 1.5891
Peroxide Value (index)	AOCS CD8-53	<10 meq/kg
Iodine Value (wijs)	AOCS TG2A-64	55–70 gI_2/100 g
Saponification Value	AOCS CD3-25	248 – 265 mg KOH/g

Fatty Acid Profile

Analytical Details	Method	Specification
Palmitic acid (C16:0)	AOCS Ce 1h-05 ISO12966(GC-FID)	5 –7%
Stearic acid (C18:0)	AOCS Ce 1h-05 ISO12966(GC-FID)	3 –5%
Oleic acid (C18:1)	AOCS Ce 1h-05 ISO12966(GC-FID)	45 – 50%
Linoleic acid (C18:2)	AOCS Ce 1h-05 ISO12966(GC-FID)	19 – 24%
α-Linolenic acid (C18:3)	AOCS Ce 1h-05 ISO12966(GC-FID)	< 5.5%
Arachidic acid (C20:0)	AOCS Ce 1h-05 ISO12966(GC-FID)	< 6.5%
Behenic acid (C22:0)	AOCS Ce 1h-05 ISO12966(GC-FID)	< 4.5%
Lignoceric acid (C24:0)	AOCS Ce 1h-05 ISO12966(GC-FID)	<4%

Microbiological Analysis

Parameter	Specification	Method
Aerobic bacteria	<100 CFU/g	NF EN ISO 21149
Yeast & mold	<10 CFU/g	NF EN ISO 16212
Pathogens (*Candida albicans, Salmonella spp., E. coli, Pseudomonas, Staphylococcus aureus*)	Absent	NF EN ISO 18416/21150/6579/22717/22718