

BERACA



**RAIN FOREST 04010
(REFINED BABAÇU OIL)**





BERACA presents a wide portfolio composed of fixed oils, butters, scrubs, clays and actives sustainably sourced from the Brazilian biodiversity. The ingredients come from extractive communities throughout Brazil and are manufactured to connect our biodiversity with thousands of consumers around the world. Through a relationship marked by transparency, traceability and innovation, Beraca contributes directly to regional development and environmental preservation.



GENERAL INFORMATION

Product Code: BR04010B

Related codes: BR04010BA00, BR04010BD19, BR04010BD20,
BR04010BP18, BR04010BX15, BR04010BX18, BR04010BX36, BR04010BX45

Previous code: RF4000

The *Orbignya oleifera* Burret species, belonging to the Arecaceae family, is also known as Babaçu, a large palm tree found in the Cerrado region and can reach up to 20 meters high. The babaçu seed is oleaginous, containing about 65% oil, with great potential for economic use. The fruit consists of brownish, thin integument, which has numerous impressions caused by contact with the endocarp and abundant endosperm. The seed is elongated, with one side curved and the other straight. It is approximately 5 cm long and 1.3 cm wide in the middle region.

When ripe, the fruit breaks off and falls to the ground. The main commercial products extracted from babaçu are the oil, extracted from the seed which corresponds to 6% - 7% of the total weight of the fruit and biomass (resulting from the process).

COSMETIC USE

Babaçu oil, extracted from the fruit seed, is rich in lauric acid that, due to the low molecular weight, shows great compatibility with the hair fiber. It helps to restore hydration in regions where there has been disruption of the peptide chain.

In addition, it has important emollient action being an alternative to coconut oil, also rich in lauric acid content. The babaçu oil is recommended for skin and hair care products.

APPLICATION

FORMULATION SUGGESTION

Formulation:	WAX FOR DEFINING CURLS
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INGREDIENTS	INCI NAME	%	SUPPLIER
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PHASE A			
BR04010B RAIN FOREST 04010 (REFINED BABAÇU OIL)	<i>Orbignya oleifera seed oil,</i> <i>Tocopherol</i>	30.00	BERACA
PLANTASENS OLIVE LD	<i>Hydrogenated</i> <i>ethylhexyl olivate (and)</i> <i>Hydrogenated</i> <i>olive oil unsaponifiables</i>	25.40	-

DERMOFEEL SENSOLV	Isoamyl Laurate	20.00	-
DERMOFEEL VISCOLID	Hydrogenated Vegetable Oil	10.00	-
BR03510B RAIN FOREST 03510 (REFINED PASSION FRUIT OIL)	<i>Passiflora edulis seed oil, Tocopherol</i>	5.50	BERACA
WHITE BEESWAX	Alba wax (beeswax)	5.00	-
BR05910B RAIN FOREST 05910 (REFINED PEQUI OIL)	<i>Caryocar brasiliense fruit oil, Tocopherol</i>	3.00	BERACA
DERMOFEEL TOCO 70 NON-GMO	<i>Tocopherol, helianthus annuus (sunflower) seed oil</i>	1.00	-
PHASE B			
FRAGRANCE	<i>Fragrance</i>	0.10	-

Procedure:

1. Weigh phase A, and heat up to 78°C.
2. Homogenize phase (A) in mechanical agitator (1.500 rpm) until becomes a clear solution.
3. Add phase (B) below 35 ° C and homogenize until cool.
4. Homogenize using Ultra Turrax (6.000 rpm/1-2 min).

Sample formulations are provided for your convenience but Beraca Ingredientes Naturais S.A. does not warrant their merchantability, fitness for use, performance, safety, microbiological profile or freedom from patent infringement. They are not commercial formulations and have not been subjected to extensive testing. It is your responsibility to thoroughly test any formulations before use. All warranties, indemnities or liabilities implied or expressed by law are hereby excluded by Beraca Ingredientes Naturais S.A. to the fullest extent permitted by law.

PHYSICAL AND CHEMICAL PROPERTIES

ANALYSIS	UNITS	SPECIFICATIONS
Appearance (above 20°C)	Visual	Viscous liquid
Appearance (below 20°C)	Visual	Semi-solid
Color	Visual	White to light yellow
Odor	-	Characteristic
Specific gravity (20°C)	g/cm ³	0.900 – 0.950
Melting Point	°C	20 – 30
Acid value (as oleic acid)	%	≤ 2.0
Peroxide value	meqO ₂ /Kg	≤ 10.0
Iodine value	gI ₂ /100g	10.0 – 18.0
Saponification value	mgKOH/g	240.0 – 256.0

FATTY ACID COMPOSITION

Caprylic acid (C8:0)	%	3.0 – 10.0
Capric acid (C10:0)	%	3.0 – 10.0
Lauric acid (C12:0)	%	40.0 – 52.0
Myristic acid (C14:0)	%	10.0 – 20.0
Palmitic acid (C16:0)	%	5.0 – 15.0
Stearic acid (C18:0)	%	≤ 5.0
Oleic acid (C18:1)	%	5.0 – 15.0
Linoleic acid (C18:2)	%	≤ 3.0

MICROBIOLOGICAL ANALYSIS

Total bacteria h. m.	cfu/g	< 100
Fungus and yeasts	cfu/g	< 100

STORAGE INFORMATION

- **Shelf-Life** → 24 months
- **Conditions** → Dry, cool, airy place, away from light and heat and other sources in an environment with constant temperature not exceeding 25°C
- **Container** → Nitrogen blanketed

IMPORTANT OBSERVATIONS

- Considering that this is a natural product, if the storage guidelines are not met, the physicochemical characteristics may vary, reducing the shelf life.
- After opening the product it should be used as soon as possible. Contact with oxygen generates an oxidative process decreasing the shelf-life of the product.
- Due to the uniqueness of each oil, it is not possible to establish an oxidative parameter for the period of exposure.
- Natural oil substances and waxes could settle during storage and develop a slight sedimentation at the bottom of the container. Please have this in mind when emptying the container.
- The above information has been developed with the methods and practices set out in AOCS (American Oil Chemists' Society).

REGULATORY INFORMATION

INCI Name (PCPC / COSING)	CAS Number
ORBIGNYA OLEIFERA SEED OIL	91078-92-1
TOCOPHEROL	59-02-9, 16698-35-4, 54-28-4, 119-13-1



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