

MAMÃO
PAPAYA

FRULIX

LIQUID FRUITS • EXCLUSIVE TECHNOLOGY

NATURAL
ORIGIN
99.55%

FRULIX MAMÃO (PAPAYA)

Is obtained through an exclusive biotechnological process that mimics the natural ripening of the fruit. Using the fruits' native enzymes ASSESSA transforms its pulp into a crystalline liquid with all the active ingredients of the fruit, in concentrations equivalent to those found in nature.

**PRODUCED
WITHOUT THE
ADITION OF
SOLVENTS**

ASSESSA

INNOVATION FOR A GREENER WORLD



THE PAPAYA

Papaya is a fruit which originates from Central America and is currently cultivated in various tropical and subtropical regions. Known by various names, papaya in Mexico, bomb-fruit in Cuba, mamão in Brazil, it is found the whole year-round. The papaya tree belongs to the Caricaceae family and the fruit has different sizes, weight, flavor and color depending on the variety to which it belongs. The pulp, soft and aromatic, also vary in color, from pale yellow to red, through various tones from orange to salmon. The skin is generally thin, quite tough, stuck to the pulp, smooth, dark-green in color, which turns yellowish or orangey as the fruit ripens. The shape of the papaya varies according to the species. The Bahia Papaya is elongated like a big pear. The Indian Papaya has ridges along its sides.

When ripe and consumed raw, the papaya is an excellent food source, as the pulp is very rich in nutrients: it contains large quantities of mineral salts (calcium, phosphorous, iron, sodium and potassium) and vitamins A and C. In addition to this, it also contains papain, a proteolytic enzyme important for the healthy functioning of the digestive system. In home-made cosmetic treatments, the pulp of the papaya is used to moisturize and soothe the skin. It unclogs pores and removes excess sebum from the skin that may be making it oily and prone to acne. Papaya can be also used to treat sunburns to soothe irritated skin. Papaya is also used in traditional medicine to even the skin tone by reducing dark spots and blemishes on the skin.



As it is a more concentrated product, FRULIX MAMÃO (PAPAYA) should be used in smaller concentrations than those normally used when making formulas with conventional extracts.

COMPOSITION

The levels of proteins, minerals and vitamins can be observed in the following tables:

PROTEINS (mg/L)

AVG.	MINIMUM
113.10	90.00

VITAMINS*

VITAMIN	CONC. (mg/L)
A. Ascorbic (C)	5.90

*Tested after 4 months from manufacturing

MINERAL SALTS

ELEMENT	CONC. (mg/L)
Na	338.40
K	1271.07
Ca	99.04
Mg	189.83
Mn	0.82
Cu	2.48
Zn	1.65
Fe	9.90



MAMÃO PAPAYA

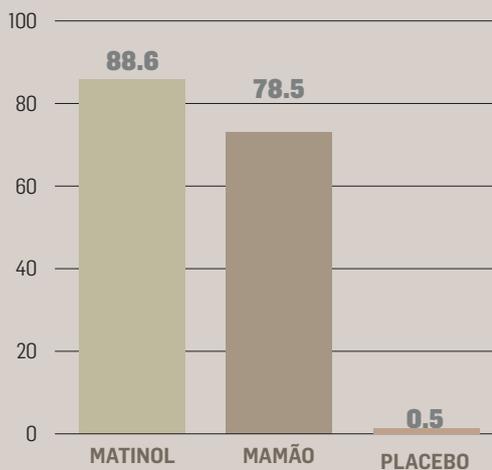
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ANTIOXIDANT ACTIVITY

The test for antioxidant activity was carried out in accordance with the Fenton protocol, comparing FRULIX MAMÃO (Papaya) with a saline solution (placebo) and with manitol as a positive control. The graph below shows the antioxidant activity compared to the reaction of the saline solution.

INHIBITION OF DECOMPOSITION OF DEOXY-RIBOSE (FENTON)



FRULIX MAMÃO (Papaya) shows good antioxidant activity when compared to the placebo (78.5%).

USAGE LEVELS

FRULIX MAMÃO (Papaya) is compatible with the most ingredients used in cosmetic formulations for the treatment of skin and hair and may be incorporated directly into the aqueous phase of the formulas, in accordance with the suggestions for concentration in the table below. It is stable at temperatures of up to 90°C, in pH conditions which range from 4.00 to 11.00.

PRODUTO	(%)
Moisturizing cream	0.3 to 0.8
Nutritive lotion	0.2 to 0.6
Serum	0.5 to 1.0
Hair Mask	0.3 to 1.0
Shampoo	0.2 to 0.4
Conditioner	0.2 to 0.4
Leave on	0.3 to 1.0

FUNCTIONS

FRULIX MAMÃO (Papaya) boasts emollient, moisturizing, nutrient and remineralizing properties and is especially recommended for use in hair-care products, in formulas for the treatment of dry, dyed, and weakened hair. In skin-care products, FRULIX MAMÃO (Papaya) acts as a hydrating, nutritive and protecting agent in creams, lotions and moisturizing face-masks.



INCI NAME

Carica Papaya (Papaya)
Fruit Extract, Sodium
Benzoate and Potassium
Sorbate.

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