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COCO^{nutrate}™

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I really don't like the way this picture looks here – it's old school; I think it should be removed.

The copy here should be the same font size as other related copy throughout the website (i.e. refer to font size under Benefits and Applications)

COCO^{nutrate}™ is a 100% organic, single-ingredient nutritious sweet liquid consisting exclusively of evaporated phloem exudate from the immature and unopened inflorescences of the coconut trees (*Cocos nucifera L.*), known generally as coconut sap.

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proteins and amino acids
i.e. the building blocks of the human body; they contribute to a lot of physiological processes such as recovery, muscle hypertrophy, fat loss, and strength gains

potassium, magnesium, sodium, calcium, phosphate and chloride
the main electrolytic minerals for the good functioning of the heart and for basic life functioning, such as maintaining electrical neutrality in cells, generating and conducting action potentials in the nerves and muscles

inulin
a natural prebiotic fiber that helps in improving digestion and metabolism to ensure the ideal required level of absorption of glucose reducing the possibility of blood sugar spikes and crashes, which keeps the gut happy

antioxidants
compounds that provide cells protection against free radicals, hence protection against many scourges of aging, and which may play a positive role in heart disease, cancer and other diseases

B vitamins
essential vitamins playing a vital role in maintaining good health and well-being

vitamin C, iron and zinc
essential vitamin and minerals that boost the immune system

COCO^{nutrate}™ can be used as an ingredient in Medicine and as a Nutrient or Dietary Supplement.

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[Nutritional properties](#)

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CERTIFICATES
COCOⁿutrate™ carries following industry-standard certification seals:

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ABOUT US

COCO nutrate™ is a product of **LJN Bio-Products Ltd.**

LJN Bio-Products Ltd. is a company registered in Toronto - Canada, which is owned by the Machate Family.

COCO nutrate™ is a unique 100% organic certified single-ingredient sweet nutritious liquid substance made directly and exclusively from the phloem exudate originating from selected coconut trees that are specifically grown on the nutrient-rich soils of the volcanic coastal areas of the island of Java, Indonesia.

Commercial operations of **COCO nutrate™** for its introduction to global market started in 2021. The production is undertaken with new modern facilities based on joint operations and license agreements between the Machate Family and two Indonesian companies in Central Java - Indonesia experienced in the harvesting, production and exporting of products made of coconut sap.

The present facilities can reach a production volume of 100 tons per month of **COCO nutrate™**. Expansions of 100 tons per year are in planning.

Supplies of **COCO nutrate™** as a food product in the form of syrup to several countries are continuously ongoing. An agreement with a US company has been signed in July 2023 for the use of **COCO nutrate™** as an ingredient of a new energy gel that is planned to be launched on the market in the first quarter of 2024.

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FROM AN IDEA TO CONCEPTION

For many centuries, farmers, agricultural cooperatives, associations, universities, and coconut sugar producers have been struggling to find a healthy method for overcoming the main problem of coconut sap fermentation during collection, transportation and storage.

Most of the methods developed to inhibit sap fermentation without the application of preservatives failed because they were either labor-intensive, not practical, or too expensive to implement on a continuous basis.

Today, farmers are therefore still using preservatives in the form of chemicals (alkalines), which are the simplest and cheapest version of inhibiting the fermentation, which however deteriorate the physical and chemical properties of the sap, including its nutrients as well as its aroma and taste, and therefore overall the quality of the end-product, i.e. coconut sugar.

In the Philippines, companies are using an expensive resource-intensive method that requires workers to climb the coconut trees every 4 hours on average to harvest the sap before it ferments; such a method also limits the production volume of coconut sugar to a certain extent.

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