Organic Acai Fruit Powder

PRODUCT SPECIFICATION

Freeze Dried Organic Açaí Juice Powder PRODUCT CODE: UTIRWFD5001 PRODUCT DESCRIPTION

The açaí tree (Euterpe oleracea or Precatoria) is a palm tree specie native to the Amazon basin and belongs to the Palmae family. It grows in the wild in floodplain zones but can also be cultivated on dry grounds. Although it can be found all over the Brazilian Amazon, it is particularly abundant in the State of Para and State of Amazonas where native trees are found in its highest concentration. Among the 150 types of fruits found in the Amazon, Açaí is considered to be the most nutritious of all, exhibiting a high concentration of fiber, Anthocyanins, essential fatty acids and vitamin E. It constitutes a natural time-released source of energy.

There are two predominant palm tree species producing edible fruit known as "açaí" found widely dispersed through the Amazon: Euterpe oleracea Mart. and Euterpe precatoria Mart. They differ from each other in terms of how the plants grow and their phytochemical composition. E. oleracea (EO) has received considerable attention as a "super fruit" because of its high antioxidant capacity, while studies on E. precatoria (EP) remain rare. In one study, antioxidant and anti-inflammatory activities of EP fruit pulps were evaluated by different assays including a series of oxygen radical absorbance capacity (ORAC) based assays, the 2,2-diphenyl-1-picrylhydrazyl (DPPH) assay, the cell-based antioxidant protection in erythrocyte (CAP-e) assay, as well as the nuclear factor-kappa B (NF- κ B) secreted embryonic alkaline phosphatase (SEAP) assay. Total phenolics were also measured as an indication of total phenol content. For comparative purposes, EO fruit pulp was included. The antioxidant capacity of EP fruit pulp was determined to be superior to EO fruit pulp in every chemical based assay. In the cell-based CAP-e assay, EP fruit pulp showed a dose-dependent inhibition against oxidative damage with an IC50 of 0.167 g/L. In the SEAP reporter assay, EP fruit pulp polyphenol-rich extracts inhibited lipopolysaccharide (LPS)-induced NF- κ B activation by 23 % (p < 0.05) at 20 μ g/mL, whereas the extract of EO fruit pulp did not show a significant inhibitory effect at comparable doses. In addition, carotenoids were quantified for the first time in EP, since EP has high scavenging capacity against singlet oxygen.



ACAI FREEZE DRIED POWDER MAIN BENEFITS: * EUTERPE PRECATORIA FAMILY

They're Nutrient-Dense. ...

They're super Loaded with Antioxidants. ...

They have big uninflammatory properties.

They May Improve Cholesterol Levels. ...

They May Have a Possible Anti-Cancer Effect. ...

They Could Boost Brain Function.

Acai Euterpe Oleracea X Euterpe Precatoria

ORAC based assays	ORAC value (μmol TE/g, DW ^a)	
	EP	EO
ORAC (against peroxyl radical)b	1828.4	1014.0
H-ORAC (hydrophilic fraction)	1792.3 ± 89.7	985.9 ± 57.4
L-ORAC (lipophilic fraction)	36.1 ± 2.6	28.1 ± 2.1
HORAC (against hydroxyl radical)	4113.8 ± 312.9	1357.3 ± 67.7
SORAC (against superoxide anion radical)	1040.4 ± 55.1	169.0 ± 12.3
NORAC (against peroxynitrite anion)	86.7 ± 5.9	37.2 ± 2.6
SOAC (against singlet oxygen)	629.3 ± 33.4	71.6 ± 8.8
ORAC (total)	7698.6	2649.1

a DW, dry weight.

Values from the ORAC based assays on the EP and the EO fruit pulp.

Acai Euterpe Precatoria Nutritional Data

b The values are calculated as sum of H-ORAC and L-ORAC.

	Per 100g / Per 100ml:
Energy Kj	2030
Energy Kcal	492
Fat g	36
(of which saturates) g	8.1
Carbohydrates g	19
(of which sugars) g	<0.1
Fibre g	31
Protein g	8.3
Salt g	0

PHYSICAL PROFILE	<u>METHOD</u>	<u>SPECIFICATION</u>
Particle Analysis	FCCM P.2.1	100% through a U.S. #14 screen
COMPOSITION STATEMENT		
ORAC hydro	FCCM C.1.2	95,000 µmoleTE/ 100 g Typical
Total Phenolics	FCCM C.2.2	3.8% Minimum
Anthocyanins	FCCM C.13. 1	480 Mg/ 100 g Typical
Moisture	FCCM P.1.1	5.0% Maximum
MICROBIOLOGICAL PROFILE		
Standard Plate Count	AOAC 990.12	< 100,000 / g
Yeast and Mold	AOAC 997.02	< 1000 / g
Coliform	AOAC 991.14	Less than 10 per Gram Maximum
E. Coli	AOAC 991.14	Negative
Salmonella	FDA BAM 8 th Ed., Ch 5	Negative

INGREDIENT STATEMENT

Freeze Dried Acai Juice Fruit Powder – Produced with 100% Acai Fruit Pulp

ALLERGEN STATEMENT

There is no historical date available of any case of Allergies with Acai barriers frozen puree or Freeze Dry powder-This product is 100% Natural with no carriers, confirmed to be Allergen Free.

ACAI POWDER IS PRODUCED/PROCESSED FROM RAW MATERIALS THAT ARE:

Not genetically modified.

No enzymes, preservatives or additives are used during the production.

No Irradiation is used in or during the process.

No ETO used

BSE FREE.

No Gluten.

They are Vegetarian and Vegan

PACKAGING and STORAGE

Industrial: High-density vacuum aluminum modified bag, heat-sealed, corrugated carton. Cool dry storage.

Pack Size: Bulk 5, 7 & 10 kgs Aluminum Foil bags in carton boxes.

Food service: 1 lbs, 2 and 5 lbs Stand up Zip lock bags

Retail: 4 oz Zip Lock Stand up Bags.

SHELF LIFE

24 months from production date, after manufacturer packing opened valid for maximum 12 months.