

## TECHNICAL DATA

## JARXOTIC AC15

**JARXOTIC™ AC15 - ACAÍ OIL**  
**(EUTERPE OLERACEA FRUIT OIL)**  
**CAS# 861902-11-6**



SPECIFICATIONS	LIMITS
Appearance	Viscous liquid
Color	Lt yellow green to dark green
Odor	Characteristic
Specific gravity (20°C)	0.890 – 0.990
Saponification value (mg KOH/g)	180 – 230
Peroxide value (meq/kg)	20.0 Max.
Iodine value (g I <sub>2</sub> /100 g)	70 – 110

### TYPICAL PROPERTIES

#### FATTY ACID COMPOSITION (%)

C16:0	10.0 – 25.0
C16:1	5.0 Max.
C18:0	5.0 Max.
C18:1	35.0 – 70.0
C18:2	5.0 – 25.0
C18:3	0.5 Max.
Others	2.0 Max.

ORAC Score (TE/g):	>30 µmol
Total polyphenolics (mg/kg): (Gallic acid equivalents)	1,400
Phytosterol composition (mg/100 g):	
Campesterol	27
Stigmasterol	34
β-Stitosterol	241
Oleic/linoleic acid ratio:	5.25

**STORAGE:** Keep in cool (below 25°C) storage in unopened containers away from light and moisture. Avoid prolonged exposure to air.

## DESCRIPTION

**Açaí oil** is a deep green oil extracted from ripe berries of the Açai palm, a tropical palm tree indigenous to Brazil and the Amazon River basin. This palm can reach heights of over 30 meters and produces three to four bunches of a dark purple fruit that is predominantly seed with ~20% pulp and skin. This oil is produced in a sustainable manner using a gentle extraction procedure that recovers the deep green oil from the pulp and skin while giving it an extra boost of antioxidants. The oil is rich in essential fatty acids including approximately 60%-70% monounsaturated oleic (omega-9), 10%-20% polyunsaturated (omega-6), and 10%-20% saturated fatty acids. The non-lipid fraction typically delivers ~2,000 mg/L phytosterols and 1,000 mg/L total polyphenolics (including *p*-hydrobenzoic acid, protocatechuic acid, vanillic acid, procyanidins, flavone-C-glucosides, flavan-3-ols, and other flavanoids). **Jarxotic AC15 has been demonstrated to contain significantly higher antioxidant power than other commercially available cold-pressed Açai oils.**

## APPLICATIONS

**Açaí oil** is an exotic rainforest product whose components are associated with antioxidant/anti-aging, regenerative, and moisturizing properties, making **Açaí oil** well suited for use in all cosmetic and dermatological applications. **Açaí oil** can be used in concentrations from 2% to 5% for anti-aging and after-sun products such as anti-aging creams, body lotions, body butters, facial creams and lotions, facial masks, shampoos, and conditioners.



Effective: February 1, 2009

Jarxotic AC15 TDS

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