



NAMIB DESERT OILS

## CERTIFICATE OF ANALYSIS

### Mongongo Oil

Analysis up date 11/2023

Product name:	Mongongo oil
Botanical name:	Schinziophyton rautanenii
INCI name:	Schinziophyton rautanenii Kernel Oil
	CAS # 68956-68-3
	EC # 273-313-5
Part used:	Kernels
Extraction method:	Cold pressed
Quality:	100% pure and natural

### GENERAL PROPERTIES

PROPERTIES:	SPECIFICATIONS:	RESULTS:
Liquid:	at 25 °C	conforms
Color:	bright yellow liquid	conforms
Odor:	lightly nutty, distinctive	conforms
Taste:	lightly nutty, distinctive	conforms
Specific Gravity:	0.9 - 0.95	0.925
Iodine Value:	120 – 140 g/100g	134
Saponification:	180 – 190 mg (KOH/g)	180
Peroxide value mEq O <sub>2</sub> /kg	<10.0	conforms
Acid value mg KOH/g	<6.0	conforms
mould and yeast count cfu/g	<100	conforms

NAMIB DESERT JOJOBA OIL PRODUCERS CC

P.O. Box 8377  
Plot Swakopae 171  
Swakopmund, Namibia

Tel.: +264 81 127 8300  
E-Mail: info@namibdesertoils.com  
www.namibdesertoils.com



## **FATTY ACID COMPOSITION**

FATTY ACID	C-CHAIN		SPECIFICATIONS (%)	RESULTS (%)
Palmitic Acid	C16:0		5-15%	8.61
Palmitoleic Acid	C16:1 n7	Omega 7	<1%	0.05
Stearic Acid	C18:0		4-10%	7.16
Oleic Acid	C18:1 n9	Omega 9	14-25%	17.74
Linoleic Acid	C18:2 n6	Omega 6	34-39%	39.0
Linolenic acid	C18:3 n5	Omega 5		24.6

### **Mongongo Oil (organic certified & conventional)**

**Rich** in polyunsaturated fatty acids, especially linoleic acid (ceramide) **omega 6 (C18:2)** that **lets the skin and hair shine**. The **high content** of an eleostearic acid (punicin acid >24%) **omega 5 "super CLnA" (C18:3n5) polymerizes by UV light and forms a protective film** in cosmetic products. In addition it **contains** oleic acid **omega 9 (C18:1)** Linoleic acid **omega 6 (C18:2n6) and palmitoleic acid omega 7 (C16:0)** which helps the skin to regenerate and **protect the skin cells**. Mongongo oil has the **highest Vitamin E** content of all oils **described** in the codex alimentarius:

**( $\gamma$ -tocopherol 4974.7 mg/kg fat. Vitamin E activity 544.4 mg/kg fat)**

**We recommend to use it in Shampoos, Hair oils, Hair serums, Sun protection cream**

## **COMPANY IDENTIFICATION**

Company Name: Namib Desert Jojoba Oil Producers cc  
Company Address: Plot Swakopae 171, P.O. Box 8377, Swakopmund, Namibia  
Company Telephone: +264 81 1278300  
Website: [www.namibdesertoils.com](http://www.namibdesertoils.com)  
Email: [info@namibdesertoils.com](mailto:info@namibdesertoils.com)

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