

CERTIFICATE OF ANALYSIS

Marula Oil

Analysis up date 11/2023

Product name:	Marula Oil
Botanical Name:	Sclerocarya birrea
INCI Name:	Sclerocarya birrea Seed 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:	light gold to light amber	conforms
Odor:	varies – lightly nutty, pleasant scent	conforms
Taste:	lightly nutty	conforms
Specific Gravity:	0.88 - 0.94	0.912
Iodine Value:	70 – 80 g/100g	72
Saponification:	178 – 199 mg (KOH/g)	192
Peroxide value mEq O ₂ /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

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FATTY ACID COMPOSITION

FATTY ACID	C-CHAIN		SPECIFICATIONS (%)	RESULTS (%)
Miristic Acid	C14:0		<1%	0.1
Palmitic Acid	C16:0		9-13%	12.3
Palmitoleic Acid	C16:1	Omega 7	0-3%	0.1
Stearic Acid	C18:0		5-9%	8.7
Oleic Acid	C18:1	Omega 9	65-78%	74.8
Linoleic Acid	C18:2	Omega 6	3-6%	4.51
a-linolenic Acid	C18:3	Omega 3	0-3%	0.1
Arachic Acid	C20:0		<1%	0.6

Marula Oil (organic certified & conventional)

Very **high content** of monounsaturated oleic acid **omega 9** (C18:1) that has a **fluidizing effect** on skin membranes, enabling cosmetic ingredients to **penetrate deep into the skin's dermis**. The saturated fatty acid content of palmitoleic acid **omega 7** (C16:1) and **stearic acid** (C18:0) **provides a film** that soothes and **reduces** trans epidermal **water loss** (TEWL) without greasy residues. Marula oil is an **oxidation stable oil**.

We recommend to use it in: Facial creams, Body lotions, After sun lotion, Hair products

COMPANY IDENTIFICATION

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