

## TECHNICAL DATA SHEET (TDS)

Product Name	COCOA BEAN OIL
Botanical Name	Theobroma cacao
CAS #	8002-31-1
EINECS #	-
INCI Name	Theobroma Cacao (Cocoa) Seed Oil

Part Used	Beans
Extraction Method	Cold Pressed
Quality	100% Pure and Natural

PROPERTIES	SPECIFICATIONS
Appearance	Pale yellow to golden colored liquid
Odour	Characteristic faint odour
Refractive Index	1.450 - 1.490 @ 20°C
Specific Gravity (g/mL)	0.890 - 0.930 @ 20°C
Saponification Value (mgKOH/g)	170 – 200
Peroxide Value (meq O2/kg)	Less than 4.0
Iodine Value (g I2/100g)	30 - 85
Free Fatty Acids (% oleic)	Less than 1.5
Moisture (%)	Less than 0.1%
Solubility	Soluble in cosmetic esters and fixed oils; Insoluble in water

## FATTY ACID COMPOSITION:

FATTY ACID	C-CHAIN	SPECIFICATIONS (%)
Palmitic Acid	<u>C16:0</u>	<u>5.00 – 12.00</u>
Stearic Acid	<u>C18:0</u>	<u>6.00 – 16.00</u>
Oleic Acid	<u>C18:1 (n-9)</u>	<u>66.00 – 78.00</u>
Linoleic Acid	<u>C18:2 (n-6)</u>	<u>5.00 – 14.00</u>

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MICROBIAL ANALYSIS	SPECIFICATIONS	STANDARDS
Aerobic Mesophilic Bacterial Count	< 100 CFU/g	ISO 21149
Yeast and Mould	< 10 CFU/g	ISO 16212
Candida albicans	ABSENT / 1g	ISO 18416
Escherichia coli	ABSENT / 1g	ISO 21150
Pseudomonas aeruginosa	ABSENT / 1g	ISO 22717
Staphylococcus aureus	ABSENT / 1g	ISO 22718

HEAVY METAL TESTS	SPECIFICATIONS	STANDARDS
Lead: Pb (mg/kg or ppm)	< 10 ppm	na
Arsenic: As (mg/kg or ppm)	< 2 ppm	na
Mercury: Hg (mg/kg or ppm)	< 1 ppm	na

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