

TECHNICSAL DATA SHEET (TDS)

Product Name	BITTER OIL	
Botanical Name	Momordica charantia	
INCI Name	Momordica Charantia (Bitter Gourd) Seed Oil	

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

<u>PROPERTIES</u>	<u>SPECIFICATIONS</u>		
Appearance	Pale yellow to golden brown colored liquid		
Odour	Characteristic mild odour		
Refractive Index	1.450 - 1.490 @ 20°C		
Specific Gravity (g/mL)	0.900 - 0.930 @ 20°C		
Saponification Value (mgKOH/g)	160 – 190		
Peroxide Value (meq O2/kg)	Less than 5.0		
Iodine Value (g I2/100g)	90 - 120		
Acid Value (mgKOH/g)	Less than 1.0		
Solubility	Soluble in cosmetic esters and fixed oils; Insoluble in water		

FATTY ACID COMPOSITION:

FATTY ACID	<u>C-CHAIN</u>	SPECIFICATIONS (%)
Palmitic Acid	<u>C16:0</u>	<u>2.00 – 14.00</u>
Stearic Acid	<u>C18:0</u>	<u>20.00 – 35.00</u>
Oleic Acid	C18:1 (n-9)	<u>3.00 – 9.00</u>
Linoleic Acid	C18:2 (n-6)	<u>50.00 – 65.00</u>
Alpha-Linolenic Acid	C18:3 (n-3)	Maximum 2.00



MICROBIAL ANALYSIS	<u>SPECIFICATIONS</u>	<u>STANDARDS</u>
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	<u>SPECIFICATIONS</u>	<u>STANDARDS</u>
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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