

TECHNICAL DATA SHEET (TDS)

Product Name	BRAZIL NUT OIL
Botanical Name	Bertholletia excelsa
CAS #	356065-50-4 ; 160965-04-8
EINECS #	-
INCI Name	Bertholletia excelsa (Brazil Nut) Oil

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

PROPERTIES	SPECIFICATIONS	
Appearance	Pale yellow to golden colored liquid	
Odour	Characteristic slight nutty odour	
Refractive Index	1.460 - 1.480 @ 20°C	
Specific Gravity (g/mL)	0.890 - 0.950 @ 25°C	
Saponification Value (mgKOH/g)	180 - 200	
Peroxide Value (meq O2/kg)	Less than 10.0	
Iodine Value (g I2/100g)	70 -130	
Free Fatty Acids (% oleic)	Less than 0.5	
Acid Value (mgKOH/g)	Less than 1.0	
Solubility	Soluble in cosmetic esters and fixed oils; Insoluble in water	

FATTY ACID COMPOSITION:

FATTY ACID	C-CHAIN	SPECIFICATIONS (%)
Lauric Acid	<u>C12:0</u>	Maximum 0.50
Myristic Acid	<u>C14:0</u>	Maximum 0.50
Palmitic Acid	<u>C16:0</u>	10.00 - 15.00
Palmitoleic Acid	<u>C16:1</u>	0.10 - 0.50
Stearic Acid	<u>C18:0</u>	<u>8.00 – 12.00</u>
Oleic Acid	<u>C18:1 (n-9)</u>	35.00 - 45.00
Linoleic Acid	<u>C18:2 (n-6)</u>	<u>30.00 - 40.00</u>
Alpha-Linolenic Acid	<u>C18:3 (n-3)</u>	<u>0.50 – 1.50</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	<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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