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TECHNICAL DATA SHEET (TDS)

Product Name	BILBERRY SEED OIL
Botanical Name	Vaccinium myrtillus
Product Code	PCO4125
CAS #	84082-34-8
EINECS #	281-983-5
INCI Name	Vaccinium Myrtillus (Bilberry) Seed Oil

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

PROPERTIES	SPECIFICATIONS	
Appearance	Pale yellow to golden colored liquid	
Odour	Characteristic mild odour	
Refractive Index	1.450 - 1.480 @ 20°C	
Specific Gravity (g/mL)	0.900 - 0.930 @ 20°C	
Saponification Value (mgKOH/g)	170 - 205	
Peroxide Value (meq O ₂ /kg)	Less than 10.0	
Iodine Value (g I ₂ /100g)	150 - 190	
Acid Value (mgKOH/g)	Less than 2.0	
Solubility	Soluble in cosmetic esters and fixed oils;	
	Insoluble in water	

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FATTY ACID COMPOSITION:

FATTY ACID	<u>C-CHAIN</u>	SPECIFICATIONS (%)
Palmitic Acid	C16:0	1.00 - 5.00
Palmitoleic Acid	C16:1 (n-7)	Maximum 1.0
Stearic Acid	C18:0	1.00 – 3.00
Oleic Acid	C18:1 (n-9)	15.00 - 30.00
Linoleic Acid	C18:2 (n-6)	30.00 - 42.00
Alpha-Linolenic Acid	C18:3 (n-3)	30.00 - 44.00

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

STABILITY AND STORAGE:

Keep in tightly closed container in a cool and dry place, protected from sunlight. When stored for more than 24 months, quality should be checked before use.

As it is electronically generated document, hence no signature required.

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