

TECHNICAL DATA SHEET

Product Name	ANGUSTI PURE LUPIN OIL
Botanical Name	<i>Lupinus angustifolius</i>
Product Code	TBC
CAS#	3088519-75-6
INCI Name	Lupin Angustifolius Seed Oil

Part Used	Seed kernel
Extraction Method	Cold Pressed or SuperCritical CO ₂
Quality	100% Pure and Unrefined
Use	Personal Care: Topical Skincare & Haircare; Not food grade.

PROPERTIES	SPECIFICATIONS
Appearance	Orange-yellow to amber coloured oily liquid
Aroma	Neutral/characteristic aroma
Refractive Index (@40°C)	1.455 – 1.466
Specific Gravity (g/ml)	0.87 - 0.92
Relative Density (@20°C)	0.87 - 0.97 g/ml
Saponification Value (mg KOH/g)	152.2 – 193.5
Peroxide Value (meq O₂/kg)	< 10 mmol O ₂ /kg
Iodine Value (g I₂/100g)	108 - 113
Acid Value (mg KOH/g)	< 7 mg KOH/g
Free Fatty Acids (%)	0.41
Solubility	Insoluble in water Soluble in cyclomethycaine, dimethicone and carrier oils including jojoba and MCT
Stability	No rancid odour detected in hand cream formulation @ 6mth
Low Temperature Behaviour	Partly solidifies under refrigeration (2-5°C), showing slight crystallisation which fully reverses when the oil is warmed to room temperature (20°C).

FATTY ACID COMPOSITION	METHOD	SPECIFICATIONS (%)
Palmitic Acid C16:0	PE 2.4.22	9.9 – 12.5%
Stearic Acid C18:0		5.0 – 7.7%
Oleic Acid C18:1 (n-9)		34.5 – 38.5%
Linoleic Acid C18:2 (n-6)	*Eurofins Environment	37.0 – 41.0%
Alpha Linolenic Acid C18:3 (n-3)	Testing, Qld, 17/9/2025	3.7 – 4.8%

BIOACTIVES	METHOD	SPECIFICATIONS (mg/100g)
Beta-Sitosterol	Time of Flight Mass Spectrometry (TOFMS)*	473 ± 142
Campesterol		130 ± 39
Stigmasterol		36 ± 11
Squalene		25 ± 8
γ-tocopherol		24 ± 7

MICROBIAL ANALYSIS	SPECIFICATIONS
Aerobic Mesophilic Bacterial Count	<1000 CFU/g
Yeast and Mould	<100 CFU/g
Mould	<100 CFU/g
Escherichia coli	Absent/1g
Pseudomonas aeruginosa	Absent/1g
Staphylococcus aureus	Absent/1g

HEALTH & SAFETY	SPECIFICATIONS
Heavy Metals (mg/kg or ppm)	None present
Pesticides	In general, all requirements of Regulation (EC) No. 396/2005 (EU Residual Content Regulation) are ensured
GMO	It is confirmed that the product does not contain or consist of genetically modified organisms (GMOs) in accordance with Regulation (EC) 1829/2003 and (EC) 1830/2003. It also contains no ingredients that are made from GMOs.
Allergen status and on-pack statement	<p>Lupin oil must be regulated according to EU Cosmetic Regulation 1223/2009.</p> <p>As a known allergen, lupin must be declared on the ingredients list if it is present above the threshold of in a rinse-off product or 0.001% in a leave-on product, similar to other major allergens like soy or peanuts.</p> <p>On-pack statement Contains Lupins. People with nut and legume allergies should consult a health clinician before using lupin oil.</p>

STORAGE AND PACKAGING

Plant-based oil will crystallise at a temperature below 10°C.

Keep in tightly closed container, protected from sunlight; temperature below 18°C.

Shelf life: Best before 18 months in original closed packaging (Ainia shelf life study 25-P00771).

Packaging: drum/canister, opaque food contact material

Volume 20 litres

Weight Net 20kg Gross 21kg

Labelling: product name, batch number, gross weight, net weight, best before date.

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