

Certificate of Analysis

No. 001/COA-RCSI/V/202 5

Product name : Refined Clear Sacha Inchi Oil
Supplier : Quilla Herbal Indonesia
Species : Plukenetia volubilis L.
Production date : May 05, 2025
Expired date : May 05, 2028
Analysis Date : May 05, 2025

Parameters	Specifications	Result	Method
Physical Characteristics			
Appearance	Liquid	Complies	Organoleptic
Colour	Clear	Complies	Organoleptic
Odour	Characteristic	Complies	Organoleptic
Relative Density	0.91-0.94 gr/cm ³	0.91 gr/cm ³	USP <841>
Acid Value	0.37-2.40 mg/g	0.38 ± 0.02 mg/g	USP <401>
Peroxide Value	1.50-19.10 m-eq/kg	11.01 m-eq/Kg	USP <401>
Iodine Value	183.69-195.05 g/100 g	179.32 g/100 g	USP <401>
Refractive Index	1.475-1.482	1.479	USP <831>
Chemical properties			
Vitamin D3 (Cholecalciferol)	Absent	0.69 mcg/100 g	USP <621>
Vitamin E (α-tocopherol)	Absent	68.54 mg/100 g	USP <621>
Magnesium (Mg)	Absent	1.16 mg/100 g	ICP-OES
Calcium (Ca)	Absent	4.19 mg/100 g	ICP-OES
Fatty Acids			
Omega3 Fatty Acids	>42%	49.30%	NTP <151.400>
Omega6 Fatty Acids	>32%	37.03%	NTP <151.400>
Omega9 Fatty Acids	>8.5	7.00%	NTP <151.400>
Microbiology			
Total Plate Count	NMT 5000 cfu/g	<10 cfu/g	USP <231>
Yeast and Mold	NMT 100 cfu/g	<10 cfu/g	USP <231>

Total Heavy Metals			
Lead (Pb)	NMT 3 ppm	Complies	USP <231>
Arsenic (As)	NMT 1 ppm	Complies	USP <231>
Cadmium (Cd)	NMT 1 ppm	Complies	USP <231>
Mercury (Hg)	NMT 0.1 ppm	Complies	USP <231>
Residual Solvent			
Hexane	Not detected	Complies	USP <621>
Ethanol	Not detected	Complies	USP <621>
Acetone	Not detected	Complies	USP <621>

Approved By,
Head of Department Pharmaceutics
and Pharmaceutical Technology

(Prof. Dr. apt. Sriwidodo, M.Si.)
19740330 199802 1 001

