

CASTOR OIL

CERTIFICATE OF ANALYSIS

Product Name	CASTOR OIL (IP/BP/USP Grade)	
Botanical Name	Ricinus communis	
CAS#	8001-79-4	
FEMA#	2263	
EINECS #	232-293-8	
INCI Name	Ricinus communis (Castor) Oil	

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

PROPERTIES	SPECIFICATIONS	<u>RESULTS</u>
Appearance	Almost colorless to slightly yellow viscous liquid	CONFORMS
Odour	Very slight, distinct odour	CONFORMS
Refractive Index	1.477 - 1.481 @ 20°C	1.479
Specific Gravity (g/mL)	0.954 - 0.960 @ 20°C	0.957
Saponification Value (mgKOH/g)	177 - 185	181
Unsaponifiables (%)	Maximum 0.8%	CONFORMS
Moisture (%)	Less than 0.25%	CONFORMS
Peroxide Value (meq O ₂ /kg)	Less than 3.5	CONFORMS
lodine Value (g I ₂ /100g)	82 - 90	85
Free Fatty Acids (% oleic)	Less than 0.5	0.22
Acid Value (mgKOH/g)	Less than 1.0	0.44
Hydroxyl Value (mgKOH/g)	Greater than 150.0	163.8
Optical Rotation (°)	3.5° to 6°	CONFORMS
Solubility	Soluble in cosmetic esters and fixed oils; Insoluble in water	CONFORMS

Address: 975 Lunt Ave., Schaumburg Illinois 60193, USA

Phone: (800)809-4941 | Email: support@thesulu.com | Web: www.thesulu.com



CASTOR OIL

CERTIFICATE OF ANALYSIS

FATTY ACID COMPOSITION:

FATTY ACID	C-CHAIN	SPECIFICATIONS (%)	RESULTS (%)
Palmitic Acid	C16:0	0.50 ± 1.00	0.60
Stearic Acid	C18:0	0.50 ± 1.00	0.82
Oleic Acid	C18:1 (n-9)	2.00 ± 6.00	3.40
Ricinoleic Acid	-	85.00 ± 95.00	90.30
Linoleic Acid	C18:2 (n-6)	1.00 ± 5.00	4.10
Alpha-Linolenic Acid	C18:3 (n-3)	0.50 ± 1.00	0.60

MICROBIAL ANALYSIS	SPECIFICATIONS	STANDARDS	RESULTS
Aerobic Mesophilic Bacterial Count	< 100 CFU/g	ISO 21149	CONFORMS
Yeast and Mould	< 10 CFU/g	ISO 16212	CONFORMS
Candida albicans	ABSENT / 1g	ISO 18416	CONFORMS
Escherichia coli	ABSENT /1g	ISO 21150	CONFORMS
Pseudomonas aeruginosa	ABSENT /1g	ISO 22717	CONFORMS
Staphylococcus aureus	ABSENT /1g	ISO 22718	CONFORMS

HEAVY METAL TESTS	SPECIFICATIONS	STANDARDS	RESULTS
Lead: Pb (mg/kg or ppm)	< 10 ppm	na	CONFORMS
Arsenic: As (mg/kg or ppm)	< 2 ppm	na	CONFORMS
Mercury: Hg (mg/kg or ppm)	< 1 ppm	na	CONFORMS

STABILITY AND STORAGE:

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

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