

CERTIFICATE OF ANALYSIS

PRODUCT NAME: CASTOR OIL BP, COLD PRESSED

LOT NUMBER: LOT0023281

PRODUCT INCI: RICINUS COMMUNIS SEED OIL

PRODUCT CODE: K0107

CAS NUMBER: 8001-79-4

EINECS NUMBER: 232-293-8

MANUFACTURING METHOD: COLD PRESSED

MANUFACTURING DATE: 12/07/2024

BEST BEFORE DATE: 12/09/2026

Analytical Details	Range %	RESULTS
Appearance	Viscous oily liquid	-
Odour	Characteristic	-
Colour	CLEAR — PALE YELLOW	-
RELATIVE DENSITY @ 20°C (G/ML)	0.958 - 0.970	0.9600
REFRACTIVE INDEX @ 20°C	1.477 – 1.481	1.4786
PEROXIDE VALUE (MEQ O ₂ / KG)	<10.0	0.50
IODINE VALUE (G/100G)	82.0 – 90.0	84.75
FREE FATTY ACID	<1.0	0.20
ACID VALUE	<1.5	0.40
SAPONIFICATION VALUE (MG KOH/GR)	176.0 – 187.0	179.97
HYDROXL VALUE (MGKOH/G)	>160.0	165.53
UNSAPONIFIABLE MATTER (%)	<0.8	0.34
OPTICAL ROTATION @ 20°C	+3.5 – +6.0	+3.9
Moisture & Impurities	<0.30	0.12
SPECIFIC ABSORBANCE	<0.7	0.14

FATTY ACID PROFILE		RANGE %	RESULTS	
C-CHAIN	ACID NAME			
C16:0	PALMITIC	<2.0	1.09	
C18:0	STEARIC	<2.5	1.31	
C18:1	OLEIC	2.5 – 6.0	3.68	
C18:1	RICINOLEIC	85.0 – 92.0	88.05	
C18:2	LINOLEIC	2.5 – 7.0	4.78	
C18:3	LINOLENIC	<1.0	0.39	
C20:1	EICOSENOIC	<1.0	0.24	

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