

## CERTIFICATE OF ANALYSIS

**PRODUCT NAME: CASTOR OIL (No1), REFINED**

**Bomar Batch: S0301** LOT0021357

PRODUCT INCI: RICINUS COMMUNIS SEED OIL

PRODUCT CODE: K0108

CAS NUMBER: 8001-79-4

EINECS NUMBER: 232-293-8

MANUFACTURING METHOD: EXPPELLER PRESSED, REFINED

MANUFACTURING DATE: 01/02/2024

BEST BEFORE DATE: 01/02/2026

ANALYTICAL DETAILS	RANGE %	RESULTS
APPEARANCE	OILY LIQUID	COMPLIES
ODOUR	ODOURLESS	COMPLIES
COLOUR	CLEAR - YELLOW	COMPLIES
COLOUR LOVIBOND	≤2R, ≤20Y	1.6R 16.0 Y
SPECIFIC GRAVITY @ 30°C	0.952 – 0.965	0.9568
REFRACTIVE INDEX @ 20°C	1.477 – 1.481	1.4788
FREE FATTY ACID (% AS OLEIC)	< 1.0	0.695
IODINE VALUE (G/100G)	82.0 – 88.0	85.37
PEROXIDE VALUE	<5.0	3.10
ACID VALUE	<2.0	1.39
SAPONIFICATION VALUE (MG KOH/GR)	176.0 – 186.0	180.48
UNSAAPONIFIABLE MATTER	≤0.8	0.34
HYDROXL VALUE (MGKOH/G)	160.0 – 169.0	164.31
WATER	<0.3	0.11
OPTICAL ROTATION	+3.5 TO +6.0	+3.6
SPECIFIC ABSORBANCE	0.7 – 1.5	1.205

FATTY ACID PROFILE		RANGE %	RESULTS
C-CHAIN	ACID NAME		
C16:0	PALMITIC	1.0 – 2.0	1.36
C18:0	STEARIC	<2.5	1.38
C18:1	OLEIC	2.5 – 6.0	3.76
-	RICINOLEIC	85.0 – 92.0	87.40
C18:2	LINOLEIC	2.5 – 7.0	4.83
C18:3	LIINOLENIC	<1.0	0.45
C20:1	EICOSENOIC	<1.0	0.33

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