

## CERTIFICATE OF ANALYSIS

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

**Bomar Batch No: Q0118 (LOT NUMBER: LOT0010708)**

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: 09/03/2021

BEST BEFORE DATE: 09/03/2023

ANALYTICAL DETAILS	RANGE %	RESULTS
APPEARANCE	OILY LIQUID	-
ODOUR	ODOURLESS	-
COLOUR	CLEAR – GREENISH - YELLOW	-
COLOUR LOVIBOND	≤2R, ≤20Y	1.1R, 11.0Y
SPECIFIC GRAVITY @ 20°C	0.915 – 0.925	0.925
RELATIVE DENSITY @ 15°C	0.957 – 0.970	0.9627
REFRACTIVE INDEX @ 20°C	1.477 – 1.481	1.4788
FREE FATTY ACID (% AS OLEIC)	< 1.0	0.72
PEROXIDE VALUE (MEQ O <sub>2</sub> /KG)	<10.0	2.5
IODINE VALUE (G/100G)	82.0 – 90.0	85.38
ACID VALUE	<2.0	1.43
SAPONIFICATION VALUE (MG KOH/GR)	177.0 – 187.0	180.25
UNSAAPONIFIABLE MATTER	≤1.0	0.37
ACETYL VALUE (MGKOH/G)	140.0 – 150.0	141.0
HYDROXL VALUE (MGKOH/G)	160.0 – 169.0	165.16

FATTY ACID PROFILE		RANGE %	RESULTS
C-CHAIN	ACID NAME		
C16:0	PALMITIC	1.0 – 2.0	1.51
C18:0	STEARIC	1.0 – 3.0	1.9
C18:1	OLEIC	2.0 – 5.0	4.4
C18:1	RICINOLEIC	85.0 – 90.0	87.63
C18:2	LINOLEIC	3.0 – 7.0	4.2

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