

## CERTIFICATE OF ANALYSIS

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

**Bomar Batch: R0115** (LOT NUMBER: LOT0017023)

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: 17/11/22

BEST BEFORE DATE: 17/11/24

ANALYTICAL DETAILS	RANGE %	RESULTS
APPEARANCE	OILY LIQUID	-
ODOUR	ODOURLESS	-
COLOUR	CLEAR - YELLOW	-
COLOUR LOVIBOND	≤2R, ≤20Y	1.2R, 12.0Y
RELATIVE DENSITY @ 15°C	0.957 – 0.969	0.9589
REFRACTIVE INDEX @ 20°C	1.477 – 1.481	1.4787
FREE FATTY ACID (% AS OLEIC)	< 1.0	0.83
PEROXIDE VALUE (MEQ O <sub>2</sub> /KG)	<10.0	2.3
IODINE VALUE (G/100G)	82.0 – 90.0	85.39
ACID VALUE	<2.0	1.65
SAPONIFICATION VALUE (MG KOH/GR)	177.0 – 187.0	180.42
UNSAAPONIFIABLE MATTER	≤1.0	0.37
ACETYL VALUE (MGKOH/G)	140.0 – 150.0	145.0
HYDROXYL VALUE (MGKOH/G)	160.0 – 169.0	164.48

FATTY ACID PROFILE		RANGE %	RESULTS
C-CHAIN	ACID NAME		
C16:0	PALMITIC	1.0 – 2.0	1.45
C18:0	STEARIC	1.0 – 3.0	2.1
C18:1	OLEIC	2.0 – 5.0	3.4
C18:1	RICINOLEIC	85.0 – 90.0	87.62
C18:2	LINOLEIC	3.0 – 7.0	5.0

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