

CERTIFICATE OF ANALYSIS

PRODUCT NAME: CASTOR OIL BP, COLD PRESSED

LOT NUMBER: LOT0022529

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: 13/05/2024

BEST BEFORE DATE: 13/11/2025

ANALYTICAL DETAILS	RANGE %	RESULTS
APPEARANCE	VISCOUS OILY LIQUID	-
ODOUR	CHARACTERISTIC	-
COLOUR	CLEAR – PALE YELLOW	-
RELATIVE DENSITY @ 20°C (G/ML)	0.958 – 0.970	0.9599
REFRACTIVE INDEX @ 20°C	1.477 – 1.481	1.4787
PEROXIDE VALUE (MEQ O ₂ / KG)	<10.0	0.74
IODINE VALUE (G/100G)	82.0 – 90.0	84.0
FREE FATTY ACID	<1.0	0.13
ACID VALUE	<1.5	0.26
SAPONIFICATION VALUE (MG KOH/GR)	176.0 – 187.0	180.11
HYDROXIL VALUE (MGKOH/G)	>160.0	164.44
UNSAAPONIFIABLE MATTER (%)	<0.8	0.34
OPTICAL ROTATION @ 20°C	+3.5 – +6.0	+3.8
MOISTURE & IMPURITIES	<0.30	0.14
SPECIFIC ABSORBANCE	<0.7	0.208

FATTY ACID PROFILE		RANGE %	RESULTS
C-CHAIN	ACID NAME		
C16:0	PALMITIC	<2.0	1.23
C18:0	STEARIC	<2.5	1.446
C18:1	OLEIC	2.5 – 6.0	3.76
C18:1	RICINOLEIC	85.0 – 92.0	87.47
C18:2	LINOLEIC	2.5 – 7.0	4.71
C18:3	LINOLENIC	<1.0	0.44
C20:1	EICOSENOIC	<1.0	0.33

The attached information is considered to be correct at the time the client received this information. Please be aware that detail can change and we encourage clients to update their records with O&3 regularly. The information is not to be considered a guarantee or warranty, or a part of our contractual or other legal obligations. The information is not to be disclosed to others, reproduced or transmitted in whole or in part without permission from O&3.