

CERTIFICATE OF ANALYSIS

PRODUCT NAME: CASTOR OIL BP, COLD PRESSED

LOT NUMBER: LOT0002500

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: 21/02/2019

BEST BEFORE DATE: 21/08/2020

ANALYTICAL DETAILS	RANGE %	RESULTS
APPEARANCE	VISCOUS OILY LIQUID	-
ODOUR	CHARACTERISTIC	-
COLOUR	CLEAR – PALE YELLOW	-
RELATIVE DENSITY @ 20°C (G/ML)	0.958 – 0.970	0.9596
REFRACTIVE INDEX @ 20°C	1.477 – 1.481	1.4787
PEROXIDE VALUE (MEQ O ₂ / KG)	<15.0	1.65
IODINE VALUE (G/100G)	82.0 – 90.0	85.5
FREE FATTY ACID	<1.0	0.42
ACID VALUE	<2.0	0.84
SAPONIFICATION VALUE (MG KOH/GR)	176.0 – 187.0	180.60
HYDROXL VALUE (MGKOH/G)	>160.0	167.02
UNSATONIFIABLE MATTER (%)	<0.8	0.36
OPTICAL ROTATION @ 20°C	+3.5 – +6.0	+3.6
MOISTURE & IMPURITIES	<0.30	0.21

FATTY ACID PROFILE		RANGE %	RESULTS
C-CHAIN	ACID NAME		
C16:0	PALMITIC	<2.0	1.12
C18:0	STEARIC	<2.5	1.17
C18:1	OLEIC	2.5 – 7.0	3.23
C18:1	RICINOLEIC	85.0 – 95.0	88.84
C18:2	LINOLEIC	2.5 – 7.0	4.17
C18:3	LINOLENIC	<1.0	0.62
C20:1	ICOSENOIC	<1.0	0.17