

CERTIFICATE OF ANALYSIS

PRODUCT NAME: CASTOR OIL BP, COLD PRESSED

LOT NUMBER: LOT0001614

PRODUCT INCI: RICINUS COMMUNIS SEED

PRODUCT CODE: K0107

CAS NUMBER: 8001-79-4

EINECS NUMBER: 232-293-8

MANUFACTURING METHOD: COLD PRESSED

MANUFACTURING DATE: 25/10/2018

BEST BEFORE DATE: 25/04/2020

ANALYTICAL DETAILS	RANGE %	RESULTS
APPEARANCE	VISCOUS OILY LIQUID	-
ODOUR	CHARACTERISTIC	-
COLOUR	CLEAR – PALE YELLOW	-
RELATIVE DENSITY @ 20°C (G/ML)	0.958 – 0.970	0.9595
REFRACTIVE INDEX @ 20°C	1.477 – 1.481	1.4780
PEROXIDE VALUE (MEQ O ₂ /KG)	<15.0	0.82
IODINE VALUE (G/100G)	82.0 – 90.0	85.50
FREE FATTY ACID	<1.0	0.38
ACID VALUE	<2.0	0.79
SAPONIFICATION VALUE (MG KOH/GR)	176.0 – 187.0	180.51
HYDROXL VALUE (MG KOH/G)	>160.0	164.40
UNSATONIFIABLE MATTER (%)	<0.8	0.36
OPTICAL ROTATION @ 20°C	+3.5 – +6.0	3.6
MOISTURE & IMPURITIES	<0.30	0.16

FATTY ACID PROFILE		RANGE %	RESULTS
C-CHAIN	ACID NAME		
C16:0	PALMITIC	<2.0	1.1
C18:0	STEARIC	<2.5	1.15
C18:1	OLEIC	2.5 – 7.0	4.73
C18:1	RICINOLEIC	85.0 – 95.0	87.97
C18:2	LINOLEIC	2.5 – 7.0	4.75
C18:3	LINOLENIC	<1.0	0.4
C20:1	ICOSENOIC	<1.0	0.6