

CERTIFICATE OF ANALYSIS

PRODUCT NAME: CASTOR OIL BP, COLD PRESSED

LOT NUMBER: LOT0004810

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: 12/11/2019

BEST BEFORE END: 12/05/2021

ANALYTICAL DETAILS	RANGE %	RESULTS
APPEARANCE	VISCOUS OILY LIQUID	-
ODOUR	CHARACTERISTIC	-
COLOUR	CLEAR – PALE YELLOW	-
RELATIVE DENSITY @ 20°C (G/ML)	0.958 – 0.970	0.9606
REFRACTIVE INDEX @ 20°C	1.477 – 1.481	1.4787
PEROXIDE VALUE (MEQ O ₂ / KG)	<10.0	1.93
IODINE VALUE (G/100G)	82.0 – 90.0	84.91
FREE FATTY ACID	<1.0	0.27
ACID VALUE	<1.5	0.54
SAPONIFICATION VALUE (MG KOH/GR)	176.0 – 187.0	180.42
HYDROXL VALUE (MGKOH/G)	>160.0	166.64
UNSAAPONIFIABLE MATTER (%)	<0.8	0.35
OPTICAL ROTATION @ 20°C	+3.5 – +6.0	+3.6
MOISTURE & IMPURITIES	<0.30	0.12
SPECIFIC ABSORBANCE	<0.7	-

FATTY ACID PROFILE		RANGE %	RESULTS
C-CHAIN	ACID NAME		
C16:0	PALMITIC	<2.0	1.11
C18:0	STEARIC	<2.5	1.18
C18:1	OLEIC	2.5 – 6.0	3.36
C18:1	RICINOLEIC	85.0 – 92.0	88.64
C18:2	LINOLEIC	2.5 – 7.0	4.4
C18:3	LINOLENIC	<1.0	0.76
C20:1	EICOSENOIC	<1.0	0.15