

# Certificate of Analysis

Raw Material Code: R00113

Product Description: Castor Oil, BP

INCI Name: Ricinus Communis Seed Oil

EINECS Number: 232-293-8

CAS Number: 8001-79-4

Date of Production: May-2016

Best Before: April-2018

Lot Number: L000169916

Retest Date: -

Analytical Details	Result
Appearance	A clear almost colourless or slightly yellow viscous, hygroscopic liquid
Odour	Very slight and characteristic
Specific Gravity at 20°C	0.9598
Refractive Index at 20°C	1.4787
Free Fatty Acid (% as Oleic)	0.25
Water	0.16
Peroxide Value (Meq O <sub>2</sub> /kg)	0.48
Saponification Value	180.46
Unsaponifiable Matter	0.35
Iodine Value (Calc.)	85.57
Acid Value	0.5
Optical Rotation	+3.6
Hydroxyl Value	163.72
Light Absorbance @ 270nm	0.166

Palmitic Acid	C16:0	1.3
Stearic Acid	C18:0	1.32
Oleic Acid	C18:1	3.52
Ricinoleic Acid	C18:1 (OH)	87.98
Linoleic Acid	C18:2	4.62
Alpha Linolenic Acid	C18:3	0.45
Eicosenoic Acid	C20:1	Not Detected