

Certificate of Analysis

Description: Hemp Oil, CP, Organic

LOT No: 54101

Inci Name: Cannabis Sativa (Hemp) Seed Oil

Cas No: 89958-21-4

Einecs No: 289-644-3

ANALYTICAL DETAILS	RANGE	RESULT
COLOUR	Green to dark green	Conforms
PHYSICAL STATE	Oily Liquid	Conforms
ODOUR	Earthy	Conforms
COLOUR (LOVIBOND 5¼" CELL)	≤ 2.0 Red, ≤ 10 Yellow	N/D
REFRACTIVE INDEX @ 20°C	1.450 – 1.490	1.478
SPECIFIC GRAVITY @ 20°C	0.920 – 0.940	0.923
FREE FATTY ACID (% AS OLEIC)	≤ 5.0	0.2
IODINE VALUE (CALC)	150 - 175	N/D
PEROXIDE VALUE (Meq O ₂ / kg)	≤ 10.0	3.4
SAPONIFICATION VALUE (CALC)	185 - 205	193
ACID VALUE	≤ 8.0	0.4
TETRAHYDROCANNABINOL (THC)	< 10 ppm	< 4 ppm

FATTY ACID PROFILE (MAJOR ACIDS)	ACID NAME	C-CHAIN	RANGE	RESULT
	PALMITIC	C16:0	5.0 – 12.0	5.9
	PALMITOLEIC	C16:1	≤1.0	N/D
	STEARIC	C18:0	1.0 – 4.5	2.5
	OLEIC	C18:1	8.0 – 16.0	11.3
	LINOLEIC	C18:2	45.0 – 65.0	54.8
	ALPHA LINOLENIC	C18:3	14.0 – 30.0	16.7
	GAMMA LINOLENIC	C18:3	≤ 5.0	4.2
	ARACHIDIC	C20:0	≤ 2.0	0.99
	GADOLEIC	C20:1	≤ 1.0	N/D

Certified by The Soil Association

Date Produced: July 2013

Best Before: January 2015

R00203

Revised: 06/12/2013 JD