

HENRY LAMOTTE OILS GMBH, POSTFACH / P.O. BOX 10 38 49, D-28038 BREMEN

Pharmachem Jozef Susnik
Dipl. Ing., S.P
Vidovdanska 2

production date: 09/2020

expiry date: 09/2022

1000 Ljubljana
Slovenia

Order No: PER E-MAIL vom 13.01.2021

Certificate of Analysis

12.03.2021

MEDICINAL COD LIVER OIL, PH.EUR., IDENTITY PRESERVED

lot: 8007109001

Ph.Eur.10, 2020, Typ A, BP 2020 Type A

Appearance	complies
Specific gravity (20 degree C)	0,922
Specific gravity (25 degree C)	0,920
Refractive index (20 degree C)	1,477
Acid value	0,12
Anisidine value	2,0
Peroxide value	complies
Iodine value	152
Saponification value	187
Water	0,01 %
Unsaponifiable Matter	0,7 %
Cold test 3h at 0°C	clear
Colour gardner	4,0
Colour lovibond 5 1/4" yellow	36,0
Colour lovibond 5 1/4" red	1,5

Fatty acid composition

Saturated fatty acids:

Lauric acid	(C 12:0)	< 0,1 %
Myristic acid	(C 14:0)	3,8 %
Pentadecane acid	(C 15:0)	0,3 %
Palmitic acid	(C 16:0)	10,1 %
Margaric acid	(C 17:0)	0,5 %
Stearic acid	(C 18:0)	2,1 %
Arachidic acid	(C 20:0)	< 0,1 %
Behenic acid	(C 22:0)	< 0,1 %
Lignoceric acid	(C 24:0)	< 0,1 %

Unsaturated fatty acids:

Myristoleic acid	(C 14:1)	0,3 %
Palmitoleic acid	(C 16:1)	7,3 %
cis-Vaccenic acid	(C 18:1 (n-7))	4,5 %
Oleic acid	(C 18:1 (n-9))	14,9 %
Gadoleic acid	(C 20:1 (n-11))	2,3 %
Gondoic acid	(C 20:1 (n-9))	11,1 %
Erucic acid	(C 22:1 (n-9))	0,9 %
Cetoleic acid	(C 22:1 (n-11))	8,5 %

Polyunsaturated fatty acids:

ROŽAMARIJA ČUČNIK MAG.FARM.
STROKOVNI SODELAVEC

Rožarija Čučnik

9 -03- 2021

MEDICINAL COD LIVER OIL, PH.EUR., IDENTITY PRESERVED**Ph.Eur.10, 2020, Typ A, BP 2020 Type A****lot: 8007109001**

Linoleic acid	(C 18:2)	1,4 %
Linolenic acid	(C 18:3 (n-3))	0,7 %
Moroctic acid	(C 18:4 (n-3))	1,7 %
Eicosanedienoic acid	(C 20:2)	0,1 %
Eicosanetrienoic acid	(C 20:3 (n-3))	0,2 %
Eicosanetrienoic acid	(C 20:3 (n-6))	0,7 %
Eicosanetraenoic acid	(C 20:4 (n-3))	< 0,1 %
Arachidonic acid	(C 20:4 (n-6))	0,4 %
Eicosapentaenoic acid	(C 20:5 (n-3), EPA)	7,6 %
Docosatetraenoic acid	(C 22:4)	0,4 %
Docosapentaenoic acid	(C 22:5 (n-3), DPA)	1,3 %
Docosahexaenoic acid	(C 22:6 (n-3), DHA)	10,3 %
Vitamin A		1070 i.U./g
Vitamin D3		106 i.U./g
Pesticides		
Organochloropesticides		complies to RHmV
Organophosphoruspesticides		complies to RHmV
Toxaphen		complies to RHmV
Polychlorinated biphenyls		
28		< 0,02 mg/kg
52		< 0,02 mg/kg
101		< 0,02 mg/kg
138		< 0,02 mg/kg
153		< 0,02 mg/kg
180		< 0,02 mg/kg
Dioxin		
WHO-PCDD/F-TEQ (Total Dioxins)		0,253 pg/g
WHO-PCDD/F-PCB-TEQ (Dioxins + dioxin-like PCBs)		0,721 pg/g
Identity		complies
Purity		complies

This product in question is not affected by the GMO problem. Therefore this product does not need to be labelled regarding any genetic modification as per the new GMO regulations 1829/2003 and 1830/2003.

HENRY LAMOTTE OILS GMBH

Computer edited certificate - valid without signature

