

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

Pharmachem d.o.o.

production date: 03/2021

Koprska Ulica 106C

expiry date: 03/2023

1000 Ljubljana

Slovenia

Order No: Your Mail from 12.05.2021

Certificate of Analysis

26.05.2021

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

lot: 8007109003

Ph.Eur.10, 2020, Typ A, BP 2021 Type A

Appearance	complies
Specific gravity (20 degree C)	0,924
Specific gravity (25 degree C)	0,922
Refractive index (20 degree C)	1,478
Acid value	0,09
Anisidine value	11,5
Peroxide value	complies
Iodine value	157
Saponification value	188
Water	< 0,01 %
Unsaponifiable Matter	0,8 %
Cold test 3h at 0°C	clear
Colour gardner	3,8
Colour lovibond 5 1/4" yellow	32,0
Colour lovibond 5 1/4" red	1,2

Fatty acid composition

Saturated fatty acids:

Lauric acid	(C 12:0)	< 0,1 %
Myristic acid	(C 14:0)	3,7 %
Pentadecane acid	(C 15:0)	0,3 %
Palmitic acid	(C 16:0)	10,3 %
Margaric acid	(C 17:0)	0,5 %
Stearic acid	(C 18:0)	2,3 %
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)	7,7 %
cis-Vaccenic acid	(C 18:1 (n-7))	4,6 %
Oleic acid	(C 18:1 (n-9))	14,5 %
Gadoleic acid	(C 20:1 (n-11))	2,3 %
Gondoic acid	(C 20:1 (n-9))	10,6 %
Erucic acid	(C 22:1 (n-9))	0,9 %
Cetoleic acid	(C 22:1 (n-11))	8,3 %

Polyunsaturated fatty acids:



ROŽAMARIJA ČUČNIK MAG.FARM.
STROKOVNI SODELAVEC

31-05-2021

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Linoleic acid	(C 18:2)	1,4 %
Linolenic acid	(C 18:3 (n-3))	0,7 %
Morotic acid	(C 18:4 (n-3))	1,8 %
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)	8,7 %
Docosatetraenoic acid	(C 22:4)	0,5 %
Docosapentaenoic acid	(C 22:5 (n-3), DPA)	1,3 %
Docosahexaenoic acid	(C 22:6 (n-3), DHA)	10,0 %
Vitamin A		1253 i.U./g
Vitamin D3		112 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)		0,674 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