

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: 10/2019

expiry date: 10/2021

1000 Ljubljana
Slovenia

Order No.: per Mail dated 20.01.2020

Certificate of Analysis

20.01.2020

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

lot: 8005296002

Ph.Eur.9, 2017, Typ A, BP 2019 Type A

Appearance	complies
Specific gravity (20 degree C)	0,923
Specific gravity (25 degree C)	0,921
Refractive index (20 degree C)	1,478
Acid value	0,17
Anisidine value	12,0
Peroxide value	complies
Iodine value	154
Saponification value	187
Water	< 0,01 %
Unsaponifiable Matter	1,3 %
Cold test 3h at 0°C	clear
Colour gardner	4,1
Colour lovibond 5 1/4" yellow	40,0
Colour lovibond 5 1/4" red	1,8

Fatty acid composition

Saturated fatty acids:

Lauric acid	(C 12:0)	< 0,1 %
Myristic acid	(C 14:0)	3,6 %
Pentadecane acid	(C 15:0)	0,3 %
Palmitic acid	(C 16:0)	10,9 %
Margaric acid	(C 17:0)	0,4 %
Stearic acid	(C 18:0)	2,6 %
Arachidic acid	(C 20:0)	< 0,1 %
Behenic acid	(C 22:0)	0,6 %
Lignoceric acid	(C 24:0)	< 0,1 %

Unsaturated fatty acids:

Myristoleic acid	(C 14:1)	0,3 %
Palmitoleic acid	(C 16:1)	6,8 %
cis-Vaccenic acid	(C 18:1 (n-7))	4,6 %
Oleic acid	(C 18:1 (n-9))	15,3 %
Gadoleic acid	(C 20:1 (n-11))	2,1 %
Gondoic acid	(C 20:1 (n-9))	10,2 %
Erucic acid	(C 22:1 (n-9))	0,8 %
Cetoleic acid	(C 22:1 (n-11))	8,7 %

ROŽAMARIJA ČUČNIK MAG.FARM.
STROKOVNI SODELAVEC

06-02-2020

Rožamarija Čučnik

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Polyunsaturated fatty acids:		
Linoleic acid	(C 18:2)	1,3 %
Linolenic acid	(C 18:3 (n-3))	0,7 %
Moroctic acid	(C 18:4 (n-3))	1,9 %
Eicosanedienoic acid	(C 20:2)	0,3 %
Eicosanetrienoic acid	(C 20:3 (n-3))	0,1 %
Eicosanetrienoic acid	(C 20:3 (n-6))	< 0,1 %
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)	8,5 %
Docosatetraenoic acid	(C 22:4)	0,5 %
Docosapentaenoic acid	(C 22:5 (n-3), DPA)	1,1 %
Docosahexaenoic acid	(C 22:6 (n-3), DHA)	9,8 %
Vitamin A		1220 i.U./g
Vitamin D3		111 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)		0,288 pg/g
WHO-PCDD/F-PCB-TEQ (Dioxins + dioxin-like PCBs)		0,915 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.

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Computer edited certificate - valid without signature