

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

Pharmachem d.o.o.

production date: 12/2021

Koprska Ulica 106C

expiry date: 12/2023

1000 Ljubljana

Slovenia

Order No: YOUR MAIL DATED 04.01.2022

Certificate of Analysis

05.01.2022

MEDICINAL COD LIVER OIL, PH.EUR., IDENTITY PRESERVED, MSC-QUALITY

lot: 8008353002

Ph.Eur.10, 2020, Typ A, BP 2022 Type A

☐		
Appearance		complies
Specific gravity (20 degree C)		0,923
Refractive index (20 degree C)		1,478
Acid value		0,06
Anisidine value		6,6
Peroxide value		complies
Iodine value		153
Saponification value		186
Water		0,01 %
Unsaponifiable Matter		0,6 %
Cold test 3h at 0°C		clear
Colour gardner		4,2
Colour lovibond 5 1/4" yellow		39,0
Colour lovibond 5 1/4" red		2,3
☐		
Fatty acid composition		
Saturated fatty acids:		
Lauric acid	(C 12:0)	< 0,1 %
Myristic acid	(C 14:0)	3,9 %
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)	< 0,1 %
Palmitoleic acid	(C 16:1)	8,1 %
cis-Vaccenic acid	(C 18:1 (n-7))	4,6 %
Oleic acid	(C 18:1 (n-9))	14,8 %
Gadoleic acid	(C 20:1 (n-11))	2,3 %
Gondoic acid	(C 20:1 (n-9))	11,0 %
Erucic acid	(C 22:1 (n-9))	0,9 %
Cetoleic acid	(C 22:1 (n-11))	8,3 %



**MEDICINAL COD LIVER OIL, PH.EUR., IDENTITY PRESERVED,
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Polyunsaturated fatty acids:

Linoleic acid	(C 18:2)	1,4 %
Linolenic acid	(C 18:3 (n-3))	0,7 %
Morotic acid	(C 18:4 (n-3))	1,7 %
Eicosadienoic acid	(C 20:2)	0,3 %
Eicosatrienoic acid	(C 20:3 (n-3))	< 0,1 %
Eicosatrienoic acid	(C 20:3 (n-6))	0,7 %
Eicosatetraenoic acid	(C 20:4 (n-3))	< 0,1 %
Arachidonic acid	(C 20:4 (n-6))	0,3 %
Eicosapentaenoic acid	(C 20:5 (n-3), EPA)	7,9 %
Docosatetraenoic acid	(C 22:4)	< 0,1 %
Docosapentaenoic acid	(C 22:5 (n-3), DPA)	1,2 %
Docosahexaenoic acid	(C 22:6 (n-3), DHA)	9,2 %

<input type="checkbox"/>	Vitamin A	1210 i.U./g
<input type="checkbox"/>	Vitamin D3	131 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)	0,785 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

**ROŽAMARIJA ČUČNIK MAG.FARM.
STROKOVNI SODELAVEC**

11 -01- 2022