

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

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

production date: 11/2013
expiry date: 11/2015

Vidovdanska 2
1000 Ljubljana
Slovenia

Order No.: via Email dated 27.01.2014

Certificate of Analysis – KEY BRAND

Bremen, 07.02.2014

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

lot: 5537802 ✓ *11.2015* ✓
Ph.Eur.7, Supplement 7.5 Typ A, USP 36, Ph.Eur.8, 2014, Typ A, BP
2014 Type A

Appearance	complies
Specific gravity (20 degree C)	0,926
Specific gravity (25 degree C)	0,924
Refractive index (20 degree C)	1,479
Acid value	0,13
Anisidine value	7,7
Peroxide value	complies
Iodine value	154
Saponification value	185
Water	0,01 %
Unsaponifiable Matter	0,8 %
Cold test 3h at 0°C	clear
Colour gardner	4,6
Colour lovibond 5 1/4" yellow	46,0
Colour lovibond 5 1/4" red	1,8

Fatty acid composition

Saturated fatty acids:		
Lauric acid	(C 12:0)	< 0,05 %
Myristic acid	(C 14:0)	3,90 %
Pentadecane acid	(C 15:0)	0,33 %
Palmitic acid	(C 16:0)	10,49 %
Margaric acid	(C 17:0)	0,46 %
Stearic acid	(C 18:0)	2,35 %
Arachidic acid	(C 20:0)	0,15 %
Behenic acid	(C 22:0)	0,08 %
Lignoceric acid	(C 24:0)	< 0,05 %
Unsaturated fatty acids:		
Myristoleic acid	(C 14:1)	0,21 %
Palmitoleic acid	(C 16:1)	6,62 %
cis-Vaccenic acid	(C 18:1 (n-7))	4,35 %
Oleic acid	(C 18:1 (n-9))	15,16 %
Gadoleic acid	(C 20:1 (n-11))	2,24 %
Gondoic acid	(C 20:1 (n-9))	10,60 %
Erucic acid	(C 22:1 (n-9))	1,01 %

FARMADENT d.o.o. Minarikova ul. 6 2000 Maribor Prejel: FUJS DRAGO
<i>[Signature]</i>
Datum prejema: <u>19.2.14.</u>
Pregledal: <u>MAROLT Robert, mag. farm., spec.</u>
Datum pregleda: <u>19.2.2014</u>

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

Ph.Eur.7, Supplement 7.5 Typ A, USP 36, Ph.Eur.8, 2014, Typ
BP 2014 Type A

oleic acid	(C 22:1 (n-11))	8,84 %
polyunsaturated fatty acids:		
oleic acid	(C 18:2)	1,42 %
oleic acid	(C 18:3 (n-3))	0,74 %
oleic acid	(C 18:4 (n-3))	1,85 %
oleic acid	(C 20:2)	0,36 %
oleic acid	(C 20:3 (n-3))	< 0,05 %
oleic acid	(C 20:3 (n-6))	0,07 %
oleic acid	(C 20:4 (n-3))	< 0,05 %
oleic acid	(C 20:4 (n-6))	0,67 %
oleic acid	(C 20:5 (n-3), EPA)	7,02 %
oleic acid	(C 22:4)	0,46 %
oleic acid	(C 22:5 (n-3), DPA)	1,22 %
oleic acid	(C 22:6 (n-3), DHA)	9,87 %
itamin A		1130 i.U./g
itamin D3		117 i.U./g

esticides		
rganochloropesticides		complies to RHmV
rganophosphoruspesticides		complies to RHmV
oxaphen		complies to RHmV

polychlorinated biphenyls		
3		< 0,02 mg/kg
2		< 0,02 mg/kg
01		< 0,02 mg/kg
38		< 0,02 mg/kg
53		< 0,02 mg/kg
30		< 0,02 mg/kg

ioxin	
/HO-PCDD/F-TEQ (Total Dioxins)	0,477 pg/g
/HO-PCDD/F-PCB-TEQ (Dioxins + dioxin-like PCBs)	0,997 pg/g

identity	complies
urity	complies

solvent residues: The pharmaceutical auxiliary material fulfills the requirements made of solvent residues in the European Pharmacopoeia (CPMP/ICH/283/95) and the USP (467 Residual solvents). Notwithstanding, the food law requirements are fulfilled.

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