LÝSI HF FISKISLÓÐ 5-9 101 REYKJAVÍK ICELAND
TEL.:354 525 8100 E-MAIL: lysi@lysi.is www.lysi .is

Quality Control | **Product description** | **Lýsi hf.**

Number:	Product Name:	Issue number: 12
HC340	**Cod Liver Oil**	Date of Issue: 02-05-2023
	-with fish oil from other species of *Gadidae*	Previous Issue: 16-12-2022

Description:

A pale yellow oil with slight odour and taste. The oil is obtained from the fresh liver of cod (*Gadus morhua*) and other species af *Gadidae*, and fish oil from other species of *Gadidae*. It is neutralised, bleached, winterised and deodorised. This oil meets the analytical parameters for cod liver oil in current British Pharmacopoeia and European Pharmacopoeia monographs. Vitamin A (retinol palmitate) and vitamin D_3 (cholecalciferol) are added to the oil.

Analytical parameters:

	Specification	Method
Vitamin A (IU/g)	min. 1000	SKL 5-27
Vitamin D_3 (IU/g)	min. 100	SKL 5-27
Eicosapentaenoic acid (EPA) (area %)	min. 8,0	SKL 5-31
Eicosapentaenoic acid (EPA) (mg/g as FFA)	min. 70	SKL 5-31
Eicosapentaenoic acid (EPA) (mg/g as TG)	min. 70	SKL 5-31
Docosahexaenoic acid (DHA) (area %)	min. 10,0	SKL 5-31
Docosahexaenoic acid (DHA) (mg/g as FFA)	min. 90	SKL 5-31
Docosahexaenoic acid (DHA) (mg/g as TG)	min. 95	SKL 5-31
Total omega-3 fatty acids (area %)	min. 22,0	SKL 5-31
Total omega-3 fatty acids (mg/g as FFA)	min. 200	SKL 5-31
Total omega-3 fatty acids (mg/g as TG)	min. 210	SKL 5-31
Composition of fatty acids (area %)	complies to EP	SKL 5-31
Peroxide value (meq. O_2/kg)	max. 5,0	SKL 5-26
Anisidine value	max. 20,0	SKL 5-33
Acid value (mg KOH/g)	max. 0,50	SKL 5-20
Free fatty acids (%)	max. 0,25	SKL 5-20
Iodine value (g I/100 g)	150 – 180	SKL 5-22
Unsaponifiable matter (in pure oil) (%)	max. 1,5	SKL 5-38
Appearance (Gardner units)	max. 6,0	SKL 5-35
Relative density at 20°C	0,917 – 0,930*	SKL 5-30
Refractive Index at 20°C	1,477 – 1,484	SKL 5-28
Cold test; remains clear at 0°C (hours)	min. 3	SKL 5-24
Dioxins (PCDD/F WHO_{2005} TEQ pg/g)	max. 1,75*	SKL 5-40
Dioxins and dioxin-like PCBs (PCDD/F-PCB WHO_{2005} TEQ pg/g)	max. 6,0*	SKL 5-40
PCB (congeners 28,52,101,138,153,180) (ng/g)	max. 200*	SKL 5-40
PAHs (4) (µg/kg)	max. 10,0*	SKL 5-40
Benzo(a)pyrene (µg/kg)	max. 2,0*	SKL 5-40
Arsenic (As), inorganic, (mg/kg)	max. 0,1*	SKL 5-40
Cadmium (Cd) (mg/kg)	max. 0,01*	SKL 5-40
Mercury (Hg) (mg/kg)	max. 0,005*	SKL 5-40
Lead (Pb) (mg/kg)	max. 0,1*	SKL 5-40

*Based on surveillance

Storage:

Store at or below 25°C. Do not expose to direct sunlight.
Shelf life is 3 years in sealed original containers.

Allergens:

Fish oil.

Approved by:

Sales: AH	Production:	Quality Assurance: HS
Date: 3/5 '23	Date: 3/5 23	Date: 3/5 '23