



CERTIFICATE OF ANALYSIS

Batch no:

0000036302

Product:

VivoMega 3322 TG60

GC Rieber spec.no:

23610-10, rev.12

Date of production:

5 January 2021

Date of issue:

6 January 2021

Description:

High EPA concentrate on triglyceride (TG) basis made from fish oil. The specification is a min

60% TG product with 3.0 - 4.0 mg/g of mixed tocopherols added. The mixed tocopherol

(E306) is of non –GMO and identity preserved quality.

Comment:

Sell-by date is 3 years from the date of production.

Shelf life is guaranteed if the product is stored in unopened original

closed containers, protected from heat and light.

Analysis:

Specification									
Description	Unit	Min	Max	Results	Methods	Remark			
C20:5 n3 (EPA)	Area%	33		34	GCRO001	1)			
	mg/g as TG	300		330	GCRO001	1)			
	mg/g as FFA	290		320	GCRO001	1)			
C22:6 n3 (DHA)	Area%	22		23	GCRO001	1)			
	mg/g as TG	200		210	GCRO001	1)			
	mg/g as FFA	190		200	GCRO001	1)			
C22:5 n3 (DPA)	Area%			4	GCRO001	1)			
	mg/g as TG			40	GCRO001	1)			
	mg/g as FFA			40	GCRO001	1)			
EPA + DHA	mg/g as TG			540	GCRO001	1)			
	mg/g as FFA			520	GCRO001	1)			
Total omega-3	Area%	60		70	GCRO001	1)			
	mg/g asTG	600		640	GCRO001	1)			
	mg/g as FFA	570		610	GCRO001	1)			
Acid Value	mg KOH/g		1.0	0.1	GCRO003	1)			
Peroxide Value	mEq/kg		2.0	0.5	GCRO006	1)			
Anisidine Value			8	2	GCRO007	1)			
Totox			10	3	Calculation	1)			
Colour	Gardner		4	2	GCRO004	1)			
Cold test		min 3h/0	°C	Passed	GCRO005	1)			
Specific gravity		0.93	0.95	Conforms	GCRO015	2)			
Absorbance at 233 nm			0.6	0.3	GCRO022	1)			
Oligomers	Area%		1.0	0.1	GCRO023	1)			
Triglycerides	Area%	60		92	GCRO023	1)			
Ethyl Esters	Area%		10	1	GCRO023	1)			
Mixed tocopherol	mg/g	3.0	4.0	3.2	Addition	3)			





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Analysis:

Analysis:						
		Specifica	ition			
Description	Unit	Min	Max	Results	Methods	Remark
Environmental analysis						
Dioxins and furans	ng/kg WHOT	EQ (2005)	1.0	<1.0	External lab	2)
Dioxin-like PCBs	ng/kg WHOTEQ (2005)		0.5	<0.5	External lab	2)
Sum of Dioxins, furans and	ng/kg WHOTEQ (2005)		1.5	<1.5	External lab	2)
Dioxin-like PCBs	rig/kg wrior	LQ (2003)	1.5			
PCBs (209 congeners)	mg/kg	`	0.005	<0.005	External lab	2)
Benzo(a)pyrene	μg/kg		1.0	<1.0	External lab	2)
Sum PAH4	μg/kg		2.0	<2.0	External lab	2)
Arsenic (As)	mg/kg		0.1	<0.1	External lab	2)
Cadmium (Cd)	mg/kg		0.002	<0.002	External lab	2)
Lead (Pb)	mg/kg		0.003	<0.003	External lab	2)
Mercury (Hg)	mg/kg		0.002	<0.002	External lab	2)
Pesticides:*	mg/kg		0.01	<0.01	External lab	2)
Microbiological analysis:						
Total aerobic microbial count	cfu/1 g		10 ³	Conforms	External lab	2)
Total yeast and mould count	cfu/1 g		10 ²	Conforms	External lab	2)
Staphylococcus aureus	cfu/1 g		Absent	Conforms	External lab	2)
Escherichia coli	cfu/1 g		Absent	Conforms	External lab	2)
Salmonella spp	cfu/10 g		Absent	Conforms	External lab	2)
Bile-tolerant Gram neg.	cfu/1 g		10 ²	Conforms	External lab	2)
(Enterobactericeae)	, 0					
Pseudomonas aeruginosa	cfu/1 g		Absent	Conforms	External lab	2)

Quality evaluation:

This batch is approved according to specification.

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Analysed by

1) Parameter analyzed in accordance with specified method on every batch, and reported on Certificate of Analysis.

2) Parameter is analyzed at least 3 times/ year. Conformity is reported in Certificate of Analysis.

3) Parameter is reported in CofA based on the amount added in the product.

*Pesticides are tested as specified in "pesticide specification attachment" which is available on request. The limit of 0.01 mg/kg applies to each pesticide.

Produced from human consumption approved fish oil, in accordance with current EU Regulations.