

# Certificate of analysis

## SEAMEGA Oil 4228 TG-XO<sup>®</sup> ULTRA

Code: HUA-EP4228TGN.XO

### Specification

Batch N° : 18272  
 Production date : 13/12/2018  
 Expiration date: 12/12/2021

### Test

Test	Min. value	Max. value	Unit	Result	Method
APPEARANCE AT ROOM TEMPERATURE characteristics, bland, mild fish like			Clear oil	CO	611059
Acid value		1.0	mg KOH/g	0.1	611002
Colour		6	Gardner	3	611065
Peroxide value		3.0	meq O <sub>2</sub> /kg	1.3*	NF EN ISO 27107
Anisidine value		8	-	2.0*	NF EN ISO 6885
Total oxidation		10	.	4.6*	SN001
Absorbance 233 nm		0.60	AU	0.21	611047
Triglycerides	90		A%	92	611064
Oligomers		1.0	A%	TR	611064
EPA; Eicosapentaenoic acid C20 :5			A%	46	611129
DHA ; Docosahexaenoic acid C22 :6			A%	31	611129
DPA; Docosapentaenoic acid C22 :5 n-3			A%	6	611129
Total n-3 (7)			A%	89	611129
Total n-3 : EPA, DHA, 18:3, 18:4, 20:4, 21:5, 22:5					
EPA; Eicosapentaenoic acid C20 :5 (TG)	420		mg/g	436	611129
DHA ; Docosahexaenoic acid C22 :6 (TG)	280		mg/g	296	611129
DPA; Docosapentaenoic acid C22 :5 n-3 (TG)			mg/g	54	611129
Total n-3 (7 TG)	780		mg/g	839	611129
Total n-3 : EPA, DHA, 18 :3, 18 :4, 20 :4, 21 :5, 22 :5					
EPA; Eicosapentaenoic acid C20 :5 (FA)	403		mg/g	419	SN001
DHA ; Docosahexaenoic acid C22 :6 (FA)	269		mg/g	284	SN001
Total n-3 (7 FA)	750		mg/g	806	SN001
Total n-3 : EPA, DHA, 18 :3, 18 :4, 20 :4, 21 :5, 22 :5					
Mixed tocopherol	3.0	4.5	mg/g	3.8	611081

\* Test on oil with process XO (finished product)

Others Tests: on Raw material EPAX (analysis transfer according to certificate of Epax)

Test	Min. value	Max. value	Unit	Result	Method
Frequency analyses from date : The following frequency analyses are analysed 1 times pr. Year with the latest results as reported below :			ddmmyy	220317	
Unsaponifiable		3	%	0.4	611096
Frequency analyses from date : The following frequency analyses are analysed 3 times pr. Year with the latest results as reported below :			ddmmyy	220317	
As, Arsenic		0.1	mg/kg	CO	611500
Cd, Cadmium		0.005	mg/kg	CO	611500
Pb, Lead		0.025	mg/kg	CO	611500
Hg, Mercury		0.005	mg/kg	CO	611500
DDT (sum : o,p' + p,p')		0.005	mg/kg	CO	611500
DDD (sum : o,p' + p,p')		0.005	mg/kg	CO	611500
DDE p,p'		0.005	mg/kg	CO	611500
HCB		0.005	mg/kg	CO	611500
PCBs all 209 Included IUPAC-no. 28, 52, 101, 138, 153,180		0.01	mg/kg	CO	611521
Brominated flame retardants IUPAC no. 47, 99, 100, 153, 154,183		0.002	mg/kg	CO	611500
DEHP		10	mg/kg	CO	611525
Benzo(a)pyrene		1.0	ng/g	CO	615500
Sum 4 PAH		5.0	ng/g	CO	611500
Dioxinlike PCBs (TE WHO)		2	pg/g	CO	611516
Dioxins+furans (TE WHO)		1	pg/g	CO	611516
Dioxins+furans+dioxinlike PCBs (TE WHO)		2.5	pg/g	CO	611516
Trans fatty acids (sum of 10)		0.9	%	CO	611167

Tests : on Raw material EPAX (analysis transfer according to certificate of Epax)

This edition approved on the: 20/12/2018

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