

Certificate of analysis



Product: EPAX 6015 EE	Batch no: 2042158	Article no: 06020
Specification no: 06020 20	Manufacturing date: 131204	Expiry date/Retest date: 131205
Previous specification: N/A	Specification, this version valid from: 110105	

⁽¹⁾ CO = Comply, NC = Not Comply, NA = Not Analysed, TR = Traces, ND = Not Detected, * = OOS

Test	Specification		Unit	Result ⁽¹⁾	Date of analysis	Method
	Min. value	Max. value				
Frequency analyses from date: The following frequency analyses are analysed 3 times pr. year with the latest results as reported below:			ddmmyy	81104	110105	
As, Arsene		0,1	mg/kg	CO	110105	611500
Cd, Cadmium		0,1	mg/kg	CO	110105	611500
Hg, Mercury		0,1	mg/kg	CO	110105	611500
Pb, Lead		0,1	mg/kg	CO	110105	611500
DDT (sum: o,p' + p,p')		0,05	mg/kg	CO	110105	611500
DDD (sum: o,p' + p,p')		0,05	mg/kg	CO	110105	611500
DDE p,p'		0,05	mg/kg	CO	110105	611500
HCB		0,05	mg/kg	CO	110105	611500
PCB's IUPAC no. 28, 52, 101, 118, 138, 153, 180		0,09	mg/kg	CO	110105	611500
Dioxins (TE WHO) CO for Dioxins: Result complies with Council regulation 2375/2001		2	pg/g	CO	110105	611516

Shelf life is guaranteed if product is stored in unopened original closed containers, protected from heat and light.

Analysis controlled and approved:


Trine Hagen Lie 11.01.05

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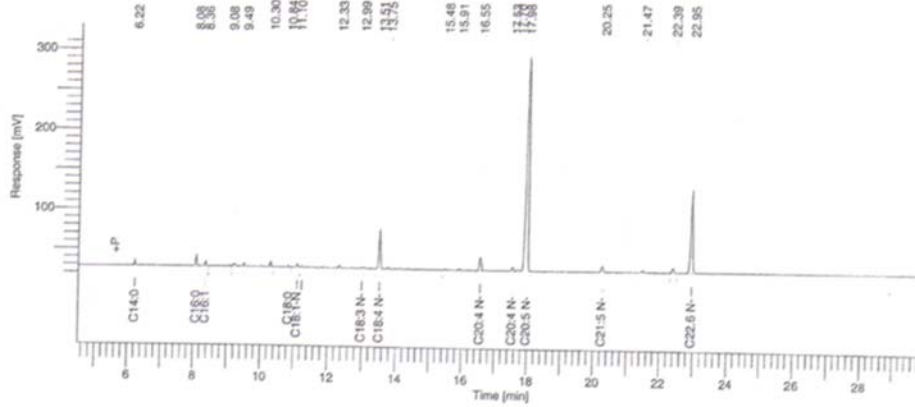
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Software Version : 6.2.1.0.104:0104
 Sample Name : A04-435 6015EE A%
 Instrument Name : Autosys-2
 Rack/Vial : 0/1
 Sample Amount : 1.000000
 Cycle : 1

Date : 12/21/2004 11:32:01 AM
 Data Acquisition Time : 12/21/2004 10:57:59 AM
 Channel : A
 Operator : a300588
 Dilution Factor : 1.000000

Result File :
 Sequence File : \\sadm03lab\TcData\Alesund\Autosys-2\sekvenser\Desember 2004\2112.seq



FATTY ACID COMPOSITION

Peak #	Component Name	Time [min]	Area [%]	Total omega-3 A%	Satur. fatty acid A%	monounsatur. fatty acid A%	Polysatur. fatty acid A%	
1	C14:0	6.222	0.64	0.00	0.64	0.00	0.00	
2	C16:0	8.075	1.41	0.00	1.41	0.00	0.00	
3	C16:1	8.359	0.65	0.00	0.00	0.65	0.00	
4		9.079	0.21	-----	-----	-----	-----	
5		9.210	0.55	-----	-----	-----	-----	
6		9.493	0.53	-----	-----	-----	-----	
7		10.300	0.91	-----	-----	-----	-----	
-	C16:4 n-1	10.655	0.00	-----	-----	-----	-----	
8	C18:0	10.837	0.21	0.00	-----	-----	-----	
9	C18:1 n-9	11.101	0.58	0.00	0.21	0.00	0.00	
10	C18:1 n-7	11.235	0.17	0.00	0.00	0.58	0.00	
-	C18:2 n-6	11.858	0.00	-----	-----	0.17	0.00	
11		12.329	0.40	-----	-----	-----	-----	
12	C18:3 n-3	12.985	0.11	0.11	0.00	0.00	0.00	
13	C18:4 n-3	13.512	7.51	7.51	0.00	0.00	0.11	
14		13.752	0.33	-----	-----	-----	7.51	
-	C20:1	14.849	0.00	-----	-----	-----	-----	
15		15.483	0.20	-----	-----	-----	-----	
16		15.907	0.29	-----	-----	-----	-----	
17	C20:4 n-6	16.547	3.05	0.00	0.00	0.00	3.05	
18	C20:4 n-3	17.530	0.80	0.80	0.00	0.00	0.80	
19		17.702	0.27	-----	-----	-----	-----	
20	C20:5 n-3	17.977	59.69	59.69	0.00	0.00	59.69	
-	C22:1	18.839	0.00	-----	-----	-----	-----	
21	C21:5 n-3	20.249	1.35	1.35	0.00	0.00	1.35	
22		21.469	0.47	-----	-----	-----	-----	
23		22.390	1.25	-----	-----	-----	-----	
-	C22:5 n-3	22.642	0.00	-----	-----	-----	-----	
24	C22:6 n-3	22.946	18.42	18.42	0.00	0.00	18.42	
				100.00	87.88	2.26	1.39	90.92

Certificate of analysis



Product: EPAX 6015 EE	Batch no: 2042158	Article no: 06020
Specification no: 06020 20	Manufacturing date: 131204	Expiry date/Retest date: 131205
Previous specification: N/A	Specification, this version valid from: 110105	

(1)CO = Comply, NC = Not Comply, NA = Not Analysed, TR = Traces, ND = Not Detected, * = OOS

Test	Specification		Unit	Result ⁽¹⁾	Date of analysis	Method
	Min. value	Max. value				
Appearance			Clear oil	CO	110105	611059
Characteristics; bland, mild fish like						
Acid Value		2,0	mg KOH/g	0,6	110105	611002
Colour		3	Gardner	2	110105	611065
Peroxide value		5,0	meq/kg	1,6	110105	611009
Anisidine value		20	-	3	110105	611014
Eicosapentaenoic acid C20:5 (EE)	530		mg/g	540	110105	611128
Docosahexaenoic acid C22:6 (EE)	100	200	mg/g	160	110105	611128
EPA and DHA	700	750	mg/g	700	110105	611128
Total n-3 (7 EE)	790		mg/g	790	110105	611128
Total n-3: EPA, DHA, 18:3, 18:4, 20:4, 21:5, 22:5						
Eicosapentaenoic acid C20:5 (FA)	490		mg/g	500	110105	611128
Docosahexaenoic acid C22:6 (FA)	90	190	mg/g	150	110105	611128
Total n-3 (7 FA)	730		mg/g	730	110105	611128
Eicosapentaenoic acid C20:5 (EE)	58		A%	60	110105	611088
Docosahexaenoic acid C22:6 (EE)	10	22	A%	18	110105	611088
Total n-3 (7) (EE)	85		A%	88	110105	611088
Total n-3: EPA, DHA, 18:3, 18:4, 20:4, 21:5, 22:5						
Saturated fatty acids			A%	2	110105	611088
Monounsaturated fatty acids			A%	1	110105	611088
Polyunsaturated fatty acids			A%	91	110105	611088
Mixed tocopherol	2,0	3,0	mg/g	2,2	110105	611081

Analysis controlled and approved:


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NDEANOKK



PRONOVA
BIOCARE

Certificate of analysis

Product: EPAX 6015 EE	Batch no: 2051670	Article no: 06020
Specification no: 06020 20	Manufacturing date: 160905	Expiry date/Retest date: 160906
Previous specification:	Specification, this version valid from: 140605	

(1)CO = Comply, NC = Not Comply, NA = Not Analysed, TR = Traces, ND = Not Detected, * = OOS

Test	Specification		Unit	Result ⁽¹⁾	Date of analysis	Method
	Min. value	Max. value				
Appearance			Clear oil	CO	200905	611059
Characteristics; bland, mild fish like						
Acid Value		2,0	mg KOH/g	0,6	200905	611002
Colour		3	Gardner	2	200905	611065
Peroxide value		5,0	meq/kg	1,8	200905	611009
Anisidine value		20	-	7	200905	611014
Total oxidation		26	-	11	200905	611136
Absorbance 233 nm		0,60	AU	0,26	200905	611047
Oligomers and partial glycerids		7,0	A%	2,9	200905	611064
Eicosapentaenoic acid C20:5 (EE)	530		mg/g	550	200905	611128
Docosahexaenoic acid C22:6 (EE)	100	200	mg/g	170	200905	611128
EPA and DHA	700	750	mg/g	710	200905	611128
Total n-3 (7 EE)	790		mg/g	820	200905	611128
Total n-3: EPA, DHA, 18:3, 18:4, 20:4, 21:5, 22:5						
Eicosapentaenoic acid C20:5 (FA)	490		mg/g	510	200905	611128
Docosahexaenoic acid C22:6 (FA)	90	190	mg/g	150	200905	611128
Total n-3 (7 FA)	730		mg/g	760	200905	611128
Eicosapentaenoic acid C20:5 (EE)	58		A%	60	200905	611088
Docosahexaenoic acid C22:6 (EE)	10	22	A%	18	200905	611088
Total n-3 (7) (EE)	85		A%	88	200905	611088
Total n-3: EPA, DHA, 18:3, 18:4, 20:4, 21:5, 22:5						
Saturated fatty acids			A%	1	200905	611088
Monounsaturated fatty acids			A%	1	200905	611088
Polyunsaturated fatty acids			A%	93	200905	611088
Mixed tocopherol	2,0	3,0	mg/g	2,3	200905	611081

Analysis controlled and approved:

Beate Stokkerit

Beate Stokkerit Quality Control 20.09.05

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LIS661 - 20050216 V1.0
LIS200/7

Certificate of analysis



Product: EPAX 6015 EE	Batch no: 2051670	Article no: 06020
Specification no: 06020 20	Manufacturing date: 160905	Expiry date/Retest date: 160906
Previous specification:	Specification, this version valid from: 140605	

(1) CO = Comply, NC = Not Comply, NA = Not Analysed, TR = Traces, ND = Not Detected, * = OOS

Test	Specification		Unit	Result ⁽¹⁾	Date of analysis	Method
	Min. value	Max. value				
Frequency analyses from date:			ddmmyy	280205	200905	.
The following frequency analyses are analysed 3 times pr. year with the latest results as reported below:						
As, Arsene		0,1	mg/kg	CO	200905	611500
Cd, Cadmium		0,01	mg/kg	CO	200905	611500
Hg, Mercury		0,005	mg/kg	CO	200905	611500
Pb, Lead		0,05	mg/kg	CO	200905	611500
DDT (sum: o,p' + p,p')		0,005	mg/kg	CO	200905	611500
DDD (sum: o,p' + p,p')		0,005	mg/kg	CO	200905	611500
DDE p,p'		0,005	mg/kg	CO	200905	611500
HCB		0,005	mg/kg	CO	200905	611500
PCB's		0,01	mg/kg	CO	200905	611500
IUPAC no. 28, 52, 101, 118, 138, 153, 180						
Benzo(a)pyrene		1	ng/g	CO	200905	611500
Dioxins (TE WHO)		1	pg/g	CO	200905	611516
CO for Dioxins: Result complies with Council regulation 2375/2001						
Dioxins and dioxin-like PCBs (TE WHO)		7,5	pg/g	CO	200905	611516

Shelf life is guaranteed if product is stored in unopened original closed containers, protected from heat and light.

EPAX do not contain any components of GMO origin, IP certified tocopherols are added

Analysis controlled and approved:

Beate Stokkerit

Beate Stokkerit Quality Control 20.09.05

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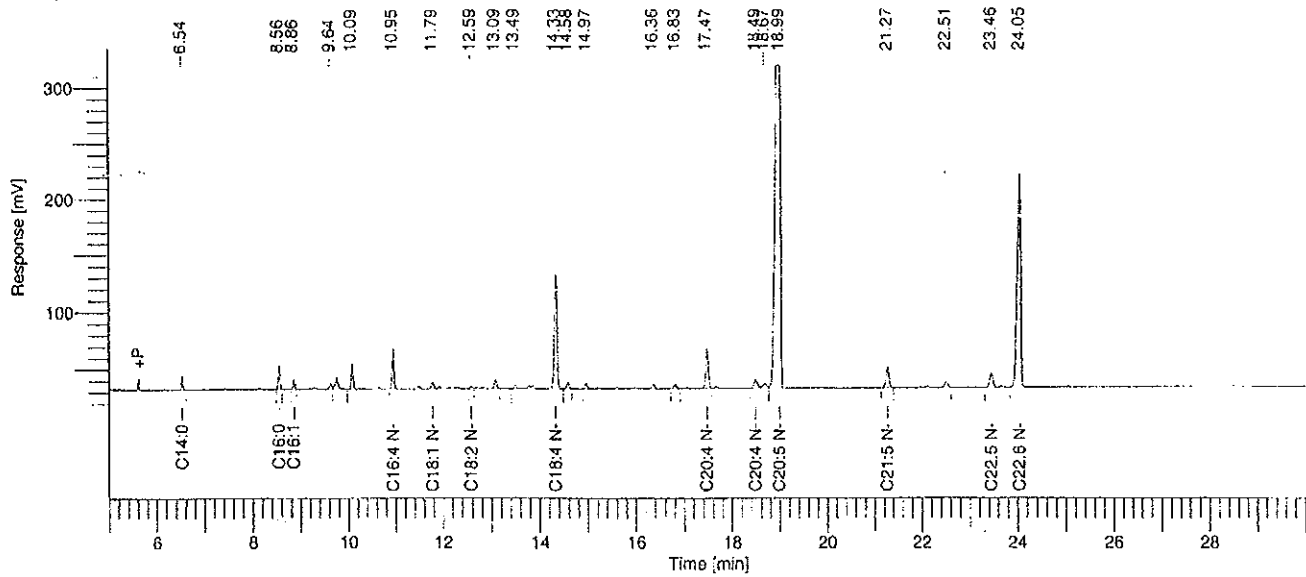
LIS661 - 20050216 V1.0
LIS200/7

Software Version : 6.2.1.0.104:0104
 Sample Name : Epax 6015 EE B:2051670
 Instrument Name : Autosys-2
 Rack/Vial : 0/24
 Sample Amount : 1.000000
 Cycle : 24

Date : 9/17/2005 7:26:51 PM
 Data Acquisition Time : 9/17/2005 3:32:53 PM
 Channel : A
 Operator : a755104
 Dilution Factor : 1.000000

Result File :
 Sequence File : \\sadm03lab\TcData\Alesund\Autosys-2\sekvenser\2005\September\1709pe.seq

Instrument Run Log
 RUN[0]= 1.00,V1 ,ON ,METHOD ,
 RUN[1]= 2.00,EvSpl1, 50,METHOD ,



REPORT EPAX EE

Peak #	Component Name	Time [min]	Area [%]	Total omega-3 A%	Satur. fatty acid A%	monounsatur. fatty acid A%	Polyunsatur. fatty acid A%	
1	C14:0	6.537	0.39	0.00	0.39	0.00	0.00	
2	C16:0	8.555	0.91	0.00	0.91	0.00	0.00	
3	C16:1	8.860	0.40	0.00	0.00	0.40	0.00	
4		9.643	0.31	-----	-----	-----	-----	
5		9.762	0.74	-----	-----	-----	-----	
6		10.091	1.15	-----	-----	-----	-----	
7	C16:4 n-1	10.953	1.89	0.00	0.00	0.00	1.89	
8	C18:1 n-7	11.786	0.41	0.00	0.00	0.41	0.00	
9	C18:2 n-6	12.585	0.14	0.00	0.00	0.00	0.14	
10		13.087	0.53	-----	-----	-----	-----	
11		13.491	0.19	-----	-----	-----	-----	
12	C18:4 n-3	14.330	7.54	7.54	0.00	0.00	7.54	
13		14.578	0.43	-----	-----	-----	-----	
14		14.968	0.32	-----	-----	-----	-----	
15		16.365	0.28	-----	-----	-----	-----	
16		16.826	0.28	-----	-----	-----	-----	
17	C20:4 n-6	17.475	2.57	0.00	0.00	0.00	2.57	
18	C20:4 n-3	18.491	0.71	0.71	0.00	0.00	0.71	
19		18.675	0.43	-----	-----	-----	-----	
20	C20:5 n-3	18.992	59.53	59.53	0.00	0.00	59.53	
21	C21:5 n-3	21.275	1.39	1.39	0.00	0.00	1.39	
22		22.510	0.43	-----	-----	-----	-----	
23	C22:5 n-3	23.457	1.12	1.12	0.00	0.00	1.12	
24	C22:6 n-3	24.048	17.90	17.90	0.00	0.00	17.90	
				100.00	88.20	1.30	0.81	92.81