

PROTHERA, INC.
 ATTN: SHANA RHEAULT
 10439 DOUBLE R BLVD.
 RENO, NV 89521

Reporting Date 11/21/2011



AR-11-QA-033332-01

REPORT OF ANALYSIS

Sample Code 468-2011-1114B080
Description EML
Client Sample Code A31532
Reference

Reception Date 11/14/2011
Purchase Order

Test Results

Result

QD610 - Mercury (ICP-MS)

Completion Date: 11/21/2011 **Method:** AOAC 986.15 mod.
 Mercury (Hg)

<0.010 mg/kg

QA00F - Peroxide Value

Completion Date: 11/15/2011 **Method:** AOCS Cd 8-53
 Peroxide value

3.02 meq/kg

QA01L - p-Anisidine Value

Completion Date: 11/15/2011 **Method:** AOCS Cd 18-90
 p-Anisidine Value

66.9

QA169 - Conjugated Linoleic (CLA)

Completion Date: 11/16/2011 **Method:** AOCS Ce 1b-89
 * Total Conjugated linoleic acid (CLA)

<1.0 mg/g

QA177 - alpha-Linolenic Acid (ALA)

Completion Date: 11/16/2011 **Method:** AOCS Ce 1b-89
 * Alpha-Linolenic acid C18:3 (n-3)

1.3 mg/g

QA178 - gamma-Linolenic (18:3n6)

Completion Date: 11/16/2011 **Method:** AOCS Ce 1b-89
 * C18:3n-6 Gamma Linolenic

0.9 mg/g

QA171 - Linoleic (C18:2) by IS

Completion Date: 11/16/2011 **Method:** AOCS Ce 1b-89
 * C 18:2 (Linoleic acid)

2.7 mg/g

QA01N - Fatty Acid Profile (relative area %)

Completion Date: 11/16/2011 **Method:** AOCS Ce 1b-89
 * C 8:0 (Caprylic acid)

<0.10 %

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Test Results	Result
* C 6:0 (Caproic acid)	<0.10 %
* C 10:0 (Capric acid)	<0.10 %
* C 12:0 (Lauric acid)	<0.10 %
* C 13:0 (Tridecanoic acid)	<0.10 %
* C 14:0 (Myristic acid)	0.10 %
* C 14:1 (Myristoleic acid)	<0.10 %
* C 15:0 (Pentadecanoic acid)	<0.10 %
* C 15:1 (Pentadecenoic acid)	<0.10 %
* C 16:0 (Palmitic acid)	0.22 %
* C 16:1 (Palmitoleic acid)	0.31 %
* C 16:2 (Hexadecadienoic acid)	<0.10 %
* C 16:3 (Hexadecatrienoic acid)	<0.10 %
* C 16:4 (Hexadecatetraenoic acid)	<0.10 %
* C 17:0 (Margaric acid)	<0.10 %
* C 17:1 (Margaroleic acid)	<0.10 %
* C 18:0 (Stearic acid)	1.18 %
* C 18:1n7 (Vaccenic acid)	0.67 %
* C 18:1n9 (Oleic acid)	1.92 %
* C 18:2n6 (Linoleic acid)	0.35 %
* C 18:3n3 (alpha-Linolenic)	0.18 %
* C 18:3n6 (gamma-Linolenic acid)	0.12 %
* C 18:4n3 (Stearidonic acid)	0.78 %
* C 20:0 (Arachidic acid)	0.73 %
* C 20:1 (Eicosenoic acid)	2.18 %
* C 20:1n9 (Gadoleic acid)	<0.10 %
* C 20:2n6 (Eicosadienoic acid)	0.43 %
* C 20:3n3 (Eicosatrienoic acid)	0.23 %
* C 20:3n6 (homo-gamma-Linolenic acid)	0.55 %
* C 20:4 (Arachidonic acid)	2.14 %
* C 20:4n3 (Eicosatetraenoic acid)	1.91 %
* C 20:4n5 (Eicosatetraenoic)	<0.10 %
* C 20:5n3 (Eicosapentaenoic acid)	38.85 %
* C 21:0 (Heneicosanoic acid)	0.20 %
* C 21:5n3 (Heneicosapentaenoic acid)	2.49 %
* C 22:0 (Behenic acid)	<0.10 %
* C 22:1n11 (Cetoleic acid)	<0.10 %
* C 22:1n9 (Erucic acid)	0.47 %
* C 22:2n6 (Docosadienoic acid)	<0.10 %
* C 22:4n3 (Eicosatetraenoic acid)	<0.10 %
* C 22:4n6 (Docosatetraenoic acid)	<0.10 %
* C 22:5n3 (Docosapentaenoic acid)	6.69 %
* C 22:5n6 (Docosapentaenoic acid)	1.00 %
* C 22:6n3 (Docosahexaenoic acid)	29.87 %
* C 23:0 (Tricosanoic acid)	<0.10 %

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Test Results

- * C 24:0 (Lignoceric acid)
- * C 24:1 (Nervonic acid)
- * Unknown Components

Result

0.12 %
0.60 %
5.63 %

QA421 - Polychlorinated Biphenyls

Completion Date: 11/21/2011 Method: AOAC 970.52

- * Polychlorinated Biphenyls

<0.01 mg/kg

**This is not covered by our current A2LA accreditation.*

Respectfully Submitted,
Eurofins Central Analytical Laboratories

Results shown in this report relate solely to the item
submitted for analysis.
Uncertainty can be obtained upon request.


John Reuther, President



TESTING CERT
#2993-01

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A2LA ISO 17025:2005
NQA ISO 9001: 2008
Food and Drug Administration

American Oil Chemists Society
Grain and Feed Trade Association
Federation of Oils, Seed, and Fats Associations, Ltd.

Japanese Ministry of Health and Welfare
Association of Official Analytical Chemists
United States Department of Agriculture

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