

Fatty Acid Profile Report

For: Carbon Optimum **Analysed As:** Triglyceride **LAL ID:** 44121D-FFA
Analysis Date: 28 Aug, 2025 **Sample Units:** Milligram Per Gram
Sample Received: 28 Aug, 2025 **Sample Matrix:** Cop-001-06-HP extract (Post-dry) - FFA

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Analytical Method: LAL-METH-02D - Determination of Fatty Acid Composition of Free Fatty Acids via TLC

Fatty Acid:	Amount (mg per gram):	% By Weight:
C4:0 - Methyl Butyrate	0.00	0.00
C6:0 - Methyl Caproate	713.45	0.61
C8:0 - Methyl Caprylate	2,011.98	1.71
C10:0 - Methyl Caprate	347.55	0.30
C12:0 - Methyl Laurate	1,016.99	0.87
C14:0 - Methyl Myristate	2,792.68	2.38
C14:1 - Methyl Myristoleate	155.99	0.13
C15:0 - Methyl Pentadecanoate	432.74	0.37
C16:0 - Methyl Palmitate	6,359.82	5.42
C16:1 - Methyl Palmitoleate	12,911.81	11.00
C18:0 - Methyl Stearate	611.57	0.52
C18:1 - Methyl Oleate	3,600.08	3.07
C18:2n6 - Methyl Linoleate	2,099.78	1.79
C18:3n6 - Methyl Gamma Linolenate	613.97	0.52
C18:3n3 - Methyl Linolenate	142.65	0.12
C18:4n3 - Methyl Stearidonate	0.00	0.00
C20:0 - Methyl Arachidate	0.00	0.00
C20:1 - Methyl Eicosenoate	0.00	0.00
C20:2n6 - Methyl 11-14 Eicosadienoate	0.00	0.00
C20:3n6 - Methyl Homogamma Linolenate	451.61	0.38
C20:4n6 - Methyl Arachidonate	10,207.45	8.69
C20:3n3 - Dihomo-gamma-linolenate	0.00	0.00
C20:4n3 - Methyl Arachidonate	0.00	0.00
C20:5n3 - Methyl Eicosapentaenoate (EPA)	71,883.53	61.22
C22:0 - Methyl Behenate	0.00	0.00
C22:1 - Methyl Erucate	133.37	0.11
C22:2n6 - Methyl Docosadienoate	0.00	0.00
C21:5n3 - Methyl Heneicosapentaenoate	926.06	0.79
C22:4n6 - Methyl Docosatetraenoate	0.00	0.00
C22:5n6 - Methyl Docosapentaenoate	0.00	0.00
C22:5n3 - Methyl Docosapentaenoate	0.00	0.00
C22:6n3 - Methyl Docosahexaenoate (DHA)	0.00	0.00
C24:0 - Methyl Lignocerate	0.00	0.00
C24:1 - Methyl Nervonate	0.00	0.00
Total (mg/g)	117,413.08	100.00

Fatty Acid Composition:	Amount (mg per gram):	% By Weight:
Saturated	14,286.78	12.17
Monosaturated	16,801.25	14.31
Polyunsaturated	86,325.05	73.52

Omega Fatty Acids:	Amount (mg per gram):	% By Weight:
Omega-3	72,952.24	62.13
Omega-6	13,372.81	11.39

Issued On: 17 Nov, 2025

Prepared By:
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Director, Analytical Services

- Test results reported relate only to the samples as received by the laboratory.
- All testing is performed by Lipid Analytical Laboratories.
- Unless otherwise stated, all samples were received in acceptable condition.
- Measurement of uncertainty can be obtained upon request.
- This report shall not be reproduced except in full without the written authority of the Laboratory.

Prepared For:
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* The total represents the sum of each of the individual fatty acid components listed above it.