



3050 Spruce Street
Saint Louis, Missouri 63103 USA
Telephone 800-325-5832 • (314) 771-5765
Fax (314) 286-7828
email: techserv@sial.com
sigma-aldrich.com

Product Information

Fish oil from menhaden fish

Product Number **F 8020**
Store at 2-8° C

Product Description

CAS Number: 8002-50-4

Density: 0.93 g/ml¹

Refractive Index: 1.4645 (60 °C)¹

This product is considered to be standard refined Menhaden oil. Whole fish are used to prepare this product as the fish are very small and difficult to dissect in any way. It is considered to be refined since the crude product is treated in the following manner:

1. It is reacted in a saponification reaction with sodium hydroxide to neutralize any free fatty acids and obtain the sodium salt,
2. The product is bleached,
3. Acid activated earth is added to the oil to remove color bodies, metals, and oxidation products (process is absorptive bleach);
4. The product is then chilled at 35 °F to form the solid waxy material (there are two fractions at room temperature), which is then filtered out leaving the oil, which is Product No. F 8020. No antioxidant or other stabilizers are added to the product.

This product is derived from Menhaden fish and is typically composed of the following fatty acids:^{2,3}

14:0 Myristic acid, 6-9%

16:0 Palmitic acid, 15-20%

16:1 Palmitoleic acid, 9-14%

18:0 Stearic acid, 3-4%

18:1 Oleic acid, 5-12%

18:2 Linoleic acid, <3%

18:3 Linolenic acid, <3%

18:4 Octadecatetraenoic acid*, 2-4%

20:4 Arachidonic acid, <3%

20:5 Eicosapentaenoic acid*, 10-15%

22:6 Docosahexaenoic Acid*, 8-15%

This sum is approximately 80% (the remaining 20% represents other unidentified fatty acids).

*an omega-3 fatty acid

Precautions and Disclaimer

For Laboratory Use Only. Not for drug, household or other uses.

References

1. CRC Handbook of Chemistry & Physics, 74th Ed., Lide, D. R., Ed., CRC Press (Boca Raton, FL: 1993), p. 7-29.
2. The Lipid Handbook, 2nd ed., Gunstone, Harwood, and Padley, eds., Chapman and Hall (London, 1994).
3. Journal of the American Oil Chemists' Society, **58**, 13 (1981).

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