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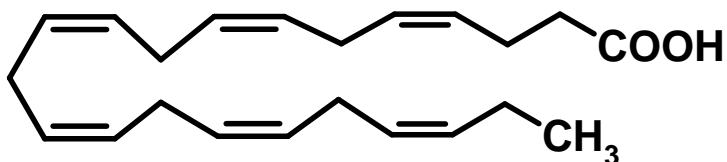
## *Product Specification - Extended*

### **Docosahexaenoic Acid (winterized to +5 °C)**

**CAS** 6217-54-5

**Syn:** (all-*Z*)-4,7,10,13,16,19-Docosahexaenoic Acid, DHA

**Structure:**



**Mol. Formula**

**C<sub>22</sub>H<sub>32</sub>O<sub>2</sub>**

**Mol. Wt.**

328.49

**Source**

*Cryptocodinium Cohnii*

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<i>Test</i>	<i>Typical Results</i>
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**Identity**

IR

**Appearance**

Clear, pale-yellow oil

**Assay**

Lauric Acid, C12:0	~ 0.2 %
C13:0	~ 7 %
Myristic Acid, C14:0	~ 0.2 %
C14:1	~ 0.7 %
Pentadecanic Acid, C15:0	~ 0.1 %
Palmitic Acid, C16:0	~ 13 %
Palmitoleic Acid + Isms, C16:1	~ 0.5 %
Margaric Acid, C17:0	~ 0.2 %
C17:1	~ 0.3 %
Octadecanoic, C18:0	~ 0.2 %
Oleic Acid, C 18:1	~ 0.7 %

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- Cont'd -

<i>Test</i>	<i>Typical Analysis</i>
Vaccenic Acid, C18:1	~ 0.4 %
Linoleic Acid, C18:2	~ 0.5 %
C18:3 (n-6)	~ 0.5 %
C18:3 (n-3)	~ 0.1%
C18:4 (n-3)	~ 0.6 %
C20:3 (n-6)	~ 0.5 %
C20:4 (n-6)	~ 1 %
C20:3 (n-3)	~ 0.6 %
C20:4 (n-3)	~ 1 %
C20:5	~ 0.9 %
Behenic Acid, C22:0	~ 2 %
C22:1 (n-9)	~ 0.4 %
C22:4 (n-6)	~ 0.2 %
C22:5	~ 19 %
C22:5 (n-3)	~ 0.8 %
C22:2	~ 0.5 %
Docoshexaenoic Acid, C22:6	40-45 %
C23:0	~ 0.4 %
C24:0	~ 0.6%
C24:1	~ 1 %
<b>Total Saturated Fatty Acids</b>	~ 26 %
<b>Total Mono-unsaturated Fatty Acids</b>	~ 4 %
<b>Total Poly-unsaturated Fatty Acids</b>	~ 69 %
<b>Total <i>trans</i>-Fatty Acids</b>	~ 0.5 %
<b>Total content of All Other Fatty Acids</b> (The individual content of all other FA components is < 0.1%)	< 1%
<b>Peroxide Value</b>	< 5 meq/Kg
<b>Lead</b>	< 0.5 ppm
<b>Arsenic</b>	< 0.5 ppm
<b>Copper</b>	< 0.2 ppm
<b>Mercury</b>	< 0.2 ppm
<b>Iron</b>	< 1 ppm

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<b><math>d_{20}^{\circ}\text{C}</math></b>	0.90 g/mL	Conforms
<b>Total Energy Content</b>	9.4 Kcal/g	9.4 Kcal/g

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This product is suitable for use in food products, including baby formula.

**Storage:** The product, in the sealed original packaging, should be stored in at 0° to -10 °C. Under these conditions, the shelf-life of Docoshexaenoic Acid is 24 mo. Transportation and storage at ambient temperatures for short periods of time will not impact the shelf-life.

**Non-GMO:** This product is derived from a non-GMO source as designed under EP regulations 1829/2003 and 1830/2003.

**TSE/BSE:** The source of this product is *Cryptocodium Cohnii*. During production, storage and transport, all contact with any material of animal origin was excluded. Therefore, the requirements set forth in of the EP comm. Directive 1999/EEC, CPMP/BWP/1230/98, and EP 01/200/: 50208 do not apply.

**Stability:** The product is sensitive to air, heat and light and should be used as soon as possible after opening .