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Laveen BV

Zuid Hollandlaan 7
2596AL Den Haag

Date 03.05.2021

Customer no. 142723

REPORT 614554 - 505067

Order **614554 Offer number: 72-131761 - Vega Omega 3 - Batch: LAV30501**
Sample no. **505067**
Sample acceptance **23.04.2021**
Date of sampling **23.04.2021**
Customer sample description **Vega Omega 3 - Batch: LAV30501**
Packaging **Plastic bag 515g**

Unit Result in OM Method

Physical chemical analyses

Parameter	Unit	Result in OM	Method
Anisidin value *)		2,9	in accordance with ISO 6885:2016
Peroxide value	meq O2/kg	1,0	MP-01296-NL ISO 3960:2017
Totox value *)		4,9	conform NEN EN ISO 6885 (2016)

Elements

Element	Unit	Result in OM	Method
Arsenic (As)	mg/kg	<0,02	MP-01445-NL in house method ICP-MS
Cadmium (Cd)	mg/kg	<0,02	MP-01445-NL in house method ICP-MS
Lead (Pb)	mg/kg	<0,05	MP-01445-NL in house method ICP-MS
Mercury (Hg)	mg/kg	<0,005	MP-01452-NL in house method HgFIMS

Fatty acid composition

Fatty acid	Unit	Result in OM	Method
Butyric acid C4:0	%	<0,1	MP-02203-NL ISO 12966-2:2017/12966-4:2015
Caproic acid C6:0	%	<0,1	MP-02203-NL ISO 12966-2:2017/12966-4:2015
Caprylic acid C8:0	%	<0,1	MP-02203-NL ISO 12966-2:2017/12966-4:2015
Nonanoic acid C9:0	%	<0,1	MP-02203-NL ISO 12966-2:2017/12966-4:2015
Capric acid C10:0	%	<0,1	MP-02203-NL ISO 12966-2:2017/12966-4:2015
Decenoic acid C10:1	%	<0,1	MP-02203-NL ISO 12966-2:2017/12966-4:2015
Undecanoic acid (C11:0)	%	<0,1	MP-02203-NL ISO 12966-2:2017/12966-4:2015
Lauric acid C12:0	%	<0,1	MP-02203-NL ISO 12966-2:2017/12966-4:2015
Dodecenoic acid C12:1	%	<0,1	MP-02203-NL ISO 12966-2:2017/12966-4:2015
C13 branched	%	<0,1	MP-02203-NL ISO 12966-2:2017/12966-4:2015
Tridecanoic acid C13:0	%	<0,1	MP-02203-NL ISO 12966-2:2017/12966-4:2015
Tridecenoic acid C13:1	%	<0,1	MP-02203-NL ISO 12966-2:2017/12966-4:2015
C14 branched	%	<0,1	MP-02203-NL ISO 12966-2:2017/12966-4:2015
Myristic acid C 14:0	%	0,8	MP-02203-NL ISO 12966-2:2017/12966-4:2015
Myristoleic acid C14:1	%	<0,1	MP-02203-NL ISO 12966-2:2017/12966-4:2015

The activities reported in this document are accredited according to EN ISO/IEC 17025:2017. Only not accredited activities are identified by the symbol " *) " .

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	Unit	Result in OM	Method
C15 branched	%	<0,1	MP-02203-NL ISO 12966-2:2017/12966-4:2015
<i>Pentadecanoic acid C15:0</i>	%	<0,1	MP-02203-NL ISO 12966-2:2017/12966-4:2015
<i>Pentadecenoid acid C15:1</i>	%	<0,1	MP-02203-NL ISO 12966-2:2017/12966-4:2015
C16 branched	%	<0,1	MP-02203-NL ISO 12966-2:2017/12966-4:2015
<i>Palmitic acid C16:0</i>	%	20,0	MP-02203-NL ISO 12966-2:2017/12966-4:2015
<i>Palmitoleic acid C16:1</i>	%	0,2	MP-02203-NL ISO 12966-2:2017/12966-4:2015
<i>Hexadecadienoic acid C16:2 (omega 4)</i>	%	<0,1	MP-02203-NL ISO 12966-2:2017/12966-4:2015
<i>Hexadecatrienoic acid C16:3 (omega 3)</i>	%	<0,1	MP-02203-NL ISO 12966-2:2017/12966-4:2015
<i>Hexadecatetraenoic acid C16:4 (omega 3)</i>	%	<0,1	MP-02203-NL ISO 12966-2:2017/12966-4:2015
C17 branched	%	<0,1	MP-02203-NL ISO 12966-2:2017/12966-4:2015
<i>Margaric acid C17:0</i>	%	0,1	MP-02203-NL ISO 12966-2:2017/12966-4:2015
<i>Heptadecenoic acid C17:1</i>	%	<0,1	MP-02203-NL ISO 12966-2:2017/12966-4:2015
C18 branched	%	<0,1	MP-02203-NL ISO 12966-2:2017/12966-4:2015
<i>Stearic acid C18:0</i>	%	0,9	MP-02203-NL ISO 12966-2:2017/12966-4:2015
<i>Oleic acid (octadecenoic acid), C18:1 (omega 9)</i>	%	<0,1	MP-02203-NL ISO 12966-2:2017/12966-4:2015
<i>Ricinoleic acid C18:1</i>	%	<0,1	MP-02203-NL ISO 12966-2:2017/12966-4:2015
<i>trans-oleic acid (trans-octadecenoic acid), C18:1t</i>	%)	0,01	in accordance with ISO 15304:2002
<i>Conjugated linoleic acid (CLA), C18:2</i>	%	<0,1	MP-02203-NL ISO 12966-2:2017/12966-4:2015
<i>Linoleic acid (octadecadienoic acid) C18:2 (omega 6)</i>	%	<0,1	MP-02203-NL ISO 12966-2:2017/12966-4:2015
<i>Linoleic acid C18:2 (5,9)</i>	%	<0,1	MP-02203-NL ISO 12966-2:2017/12966-4:2015
<i>Linoleic acid C18:2 (9,12)</i>	%	<0,1	MP-02203-NL ISO 12966-2:2017/12966-4:2015
<i>trans-Linoleic acid (trans-octadecadienoic acid), C18:2t</i>	%)	<0,01	in accordance with ISO 15304:2002
<i>alpha-Eleostearic acid C18:3 (9Z,11E,13E)</i>	%	<0,1	MP-02203-NL ISO 12966-2:2017/12966-4:2015
<i>alpha-linolenic acid (Octadecatrienoic) C18:3 (omega 3)</i>	%	<0,1	MP-02203-NL ISO 12966-2:2017/12966-4:2015
<i>beta-eleostearic acid C18:3 (9E,11E,13E)</i>	%	<0,1	MP-02203-NL ISO 12966-2:2017/12966-4:2015
<i>gamma-linolenic acid (Octadecatrienoic) C18:3 (omega 6)</i>	%	<0,1	MP-02203-NL ISO 12966-2:2017/12966-4:2015
<i>Octadecatrienoic acid C18:3 (5,9,12)</i>	%	<0,1	MP-02203-NL ISO 12966-2:2017/12966-4:2015
<i>Octadecatrienoic acid C18:3 (9,12,15)</i>	%	<0,1	MP-02203-NL ISO 12966-2:2017/12966-4:2015
<i>trans-linolenic acid (octadecatrienoic acid) C18:3t</i>	%)	<0,01	in accordance with ISO 15304:2002
<i>Stearidonic acid (octadecatetraenoic acid) C18:4 (omega 3)</i>	%	<0,1	MP-02203-NL ISO 12966-2:2017/12966-4:2015
<i>Nonadecanoic acid C19:0</i>	%	0,1	MP-02203-NL ISO 12966-2:2017/12966-4:2015
<i>Arachidic acid C20:0</i>	%	0,1	MP-02203-NL ISO 12966-2:2017/12966-4:2015
<i>Gadoleic acid C20:1 (omega 9)</i>	%	<0,1	MP-02203-NL ISO 12966-2:2017/12966-4:2015
<i>Eicosadienoic C20: 2 (omega 6)</i>	%	<0,1	MP-02203-NL ISO 12966-2:2017/12966-4:2015
<i>Eicosatrienic acid C20: 3 (omega 3)</i>	%	<0,1	MP-02203-NL ISO 12966-2:2017/12966-4:2015

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Eicosatrienoic C20: 3 (omega 6)	%	<0,1	MP-02203-NL ISO 12966-2:2017/12966-4:2015
Arachidonic acid (eicosatetraenoic acid) C20:4 (omega 6)	%	<0,1	MP-02203-NL ISO 12966-2:2017/12966-4:2015
Eicosatetraenoic acid C20:4 (omega 3)	%	<0,1	MP-02203-NL ISO 12966-2:2017/12966-4:2015
Eicosapentaenoic acid (EPA), C20:5 (omega 3)	%	0,7	MP-02203-NL ISO 12966-2:2017/12966-4:2015
Heneicosanoic acid C21:0	%	<0,1	MP-02203-NL ISO 12966-2:2017/12966-4:2015
Behenic acid C22:0	%	<0,1	MP-02203-NL ISO 12966-2:2017/12966-4:2015
Erucic acid C22:1 (omega 9)	%	<0,1	MP-02203-NL ISO 12966-2:2017/12966-4:2015
Docosadienoic acid C22:2 (omega 6)	%	<0,1	MP-02203-NL ISO 12966-2:2017/12966-4:2015
Docosatrienoic acid C22:3 (omega 3)	%	<0,1	MP-02203-NL ISO 12966-2:2017/12966-4:2015
Docosatetraenoic acid C22:4 (omega 6)	%	<0,1	MP-02203-NL ISO 12966-2:2017/12966-4:2015
Docosapentaenoic acid C22:5 (omega 3)	%	0,1	MP-02203-NL ISO 12966-2:2017/12966-4:2015
Docosapentaenoic acid C22:5 (omega 6)	%	11,3	MP-02203-NL ISO 12966-2:2017/12966-4:2015
Docosahexaenoic acid C22:6 (omega 3)	%	61,8	MP-02203-NL ISO 12966-2:2017/12966-4:2015
Tricosanoic acid C23:0	%	<0,1	MP-02203-NL ISO 12966-2:2017/12966-4:2015
Lignoceric acid C24:0	%	<0,1	MP-02203-NL ISO 12966-2:2017/12966-4:2015
Nervonic acid (tetracosenoic acid) C24:1 (omega 9)	%	<0,1	MP-02203-NL ISO 12966-2:2017/12966-4:2015
Total monounsaturated fatty acids	%	0,2 ^{x)}	MP-02203-NL ISO 12966-2:2017/12966-4:2015
Total Omega 3 fatty acids	%	62,6 ^{x)}	MP-02203-NL ISO 12966-2:2017/12966-4:2015
Total Omega 6 fatty acids	%	11,3 ^{x)}	MP-02203-NL ISO 12966-2:2017/12966-4:2015
Total Omega 9 fatty acids	%	<0,1 ^{x)}	MP-02203-NL ISO 12966-2:2017/12966-4:2015
Total polyunsaturated fatty acids	%	73,9 ^{x)}	MP-02203-NL ISO 12966-2:2017/12966-4:2015
Total polyunsaturated (>4) fatty acids	%	73,9 ^{x)}	MP-02203-NL ISO 12966-2:2017/12966-4:2015
Total saturated fatty acids	%	22,0 ^{x)}	MP-02203-NL ISO 12966-2:2017/12966-4:2015
Total trans fatty acids	%)	<0,10 ^{x)}	in accordance with ISO 15304:2002

x) The sum calculation is done without taking into account single values below limit of detection or limit of quantification.

Explanation: The symbol "<" or n.d. in the result column means, the substance concerned is not quantifiable at the limit of quantification shown opposite.

Parameter-specific analytical measurement uncertainties and information regarding the method of calculation will be provided upon request if the reported results are above the parameter-specific limit of quantification.

Remarks

With regard to the examined parameters mentioned above, as well as taking into account the measuring tolerances, processing factors and the currently valid limit values / recommendation values, from our point of view the product is considered to be marketable in Germany/Netherlands.

Start of testing: 23.04.2021

End of testing: 03.05.2021

The results are related only to the samples tested. In cases where the laboratory has not been responsible for sampling, the reported results apply to the samples as received. Duplication of this document or of parts of it requires the authorization from laboratory.

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Customer no. 142723

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**Dr. A. Verwey B.V. Ashley Riddering, Tel. +31/108083 865
Customer Service**

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