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Fresh Omega
Leidsevaart 228
2203 LC Noordwijk (ZH)

Date 31.01.2019

Customer no. 127490

REPORT 532406 / 2 - 353296 / 2

The slash after the order and/or analysis number corresponds to the current version of the test report. This version replaces all previous versions of this test report.

Order **532406 / 2 Mermaids Omega-3**
Sample no. **353296 / 2**
Sample acceptance **23.01.2019**
Date of sampling **23.01.2019**
Sample code **Mermaids Omega-3**
Packaging **Glass bottle**
Sample seal **-**

Unit EU Result regulations Method

Elements

Element	Unit	Result	EU Regulation	Method
Arsenic (As)	mg/kg	<0,02		in-house method ICP-MS (QMP_504_VW_201)
Cadmium (Cd)	mg/kg	<0,02	1 ^{max}	in-house method ICP-MS (QMP_504_VW_201)
Lead (Pb)	mg/kg	<0,05	3 ^{max}	in-house method ICP-MS (QMP_504_VW_201)
Mercury (Hg)	mg/kg	<0,005	0,1 ^{max}	in-house method HgFIMS (QMP_504_VW_218)

Pesticides Multi-Residue-Methods

Pesticide	Unit	Result	EU Regulation	Method
Aldrin	mg/kg	<0,005		DIN EN 12393-2 : 2014-03 (mod.) / DIN EN 12393-3 : 2014-01 (mod.)(KI) u)
Dieldrin	mg/kg	<0,005		DIN EN 12393-2 : 2014-03 (mod.) / DIN EN 12393-3 : 2014-01 (mod.)(KI) u)
Endrin	mg/kg	<0,005		DIN EN 12393-2 : 2014-03 (mod.) / DIN EN 12393-3 : 2014-01 (mod.)(KI) u)
Chlordane alpha	mg/kg	<0,01		DIN EN 12393-2 : 2014-03 (mod.) / DIN EN 12393-3 : 2014-01 (mod.)(KI) u)
Chlordane gamma	mg/kg	<0,005		DIN EN 12393-2 : 2014-03 (mod.) / DIN EN 12393-3 : 2014-01 (mod.)(KI) u)
Chlordane oxy	mg/kg	<0,005		DIN EN 12393-2 : 2014-03 (mod.) / DIN EN 12393-3 : 2014-01 (mod.)(KI) u)
Endosulfan alpha	mg/kg	<0,005		DIN EN 12393-2 : 2014-03 (mod.) / DIN EN 12393-3 : 2014-01 (mod.)(KI) u)
Endosulfan beta	mg/kg	<0,005		DIN EN 12393-2 : 2014-03 (mod.) / DIN EN 12393-3 : 2014-01 (mod.)(KI) u)
Endosulfansulfat	mg/kg	<0,005		DIN EN 12393-2 : 2014-03 (mod.) / DIN EN 12393-3 : 2014-01 (mod.)(KI) u)
Sum endosulfan-alpha, -beta, -sulfat	mg/kg	<0,020 ^{x)}		calculated
Hexachlorobenzene	mg/kg	<0,005		DIN EN 12393-2 : 2014-03 (mod.) / DIN EN 12393-3 : 2014-01 (mod.)(KI) u)

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	Unit	EU Result regulations	Method
HCH-alpha	mg/kg	<0,005	DIN EN 12393-2 : 2014-03 (mod.) / DIN EN 12393-3 : 2014-01 (mod.)(KI) u)
HCH-beta	mg/kg	<0,005	DIN EN 12393-2 : 2014-03 (mod.) / DIN EN 12393-3 : 2014-01 (mod.)(KI) u)
HCH-delta	mg/kg	<0,005	DIN EN 12393-2 : 2014-03 (mod.) / DIN EN 12393-3 : 2014-01 (mod.)(KI) u)
HCH-epsilon	mg/kg	<0,005	DIN EN 12393-2 : 2014-03 (mod.) / DIN EN 12393-3 : 2014-01 (mod.)(KI) u)
HCH-gamma (Lindane)	mg/kg	<0,005	DIN EN 12393-2 : 2014-03 (mod.) / DIN EN 12393-3 : 2014-01 (mod.)(KI) u)
Heptachlor	mg/kg	<0,005	DIN EN 12393-2 : 2014-03 (mod.) / DIN EN 12393-3 : 2014-01 (mod.)(KI) u)
Heptachlorepoxyde-cis	mg/kg	<0,005	DIN EN 12393-2 : 2014-03 (mod.) / DIN EN 12393-3 : 2014-01 (mod.)(KI) u)
Heptachlorepoxyde-trans	mg/kg	<0,005	DIN EN 12393-2 : 2014-03 (mod.) / DIN EN 12393-3 : 2014-01 (mod.)(KI) u)
o,p-DDD	mg/kg	<0,010	DIN EN 12393-2 : 2014-03 (mod.) / DIN EN 12393-3 : 2014-01 (mod.)(KI) u)
o,p-DDE	mg/kg	<0,010	DIN EN 12393-2 : 2014-03 (mod.) / DIN EN 12393-3 : 2014-01 (mod.)(KI) u)
o,p-DDT	mg/kg	<0,010	DIN EN 12393-2 : 2014-03 (mod.) / DIN EN 12393-3 : 2014-01 (mod.)(KI) u)
p,p-DDD	mg/kg	<0,01	DIN EN 12393-2 : 2014-03 (mod.) / DIN EN 12393-3 : 2014-01 (mod.)(KI) u)
p,p-DDE	mg/kg	<0,01	DIN EN 12393-2 : 2014-03 (mod.) / DIN EN 12393-3 : 2014-01 (mod.)(KI) u)
p,p-DDT	mg/kg	<0,010	DIN EN 12393-2 : 2014-03 (mod.) / DIN EN 12393-3 : 2014-01 (mod.)(KI) u)
Methoxychlor	mg/kg	<0,005	DIN EN 12393-2 : 2014-03 (mod.) / DIN EN 12393-3 : 2014-01 (mod.)(KI) u)
Quintozone	mg/kg	<0,005	DIN EN 12393-2 : 2014-03 (mod.) / DIN EN 12393-3 : 2014-01 (mod.)(KI) u)
Tecnazene	mg/kg	<0,005	DIN EN 12393-2 : 2014-03 (mod.) / DIN EN 12393-3 : 2014-01 (mod.)(KI) u)
Tetradifon	mg/kg	<0,005	DIN EN 12393-2 : 2014-03 (mod.) / DIN EN 12393-3 : 2014-01 (mod.)(KI) u)
Nitrofen	mg/kg	<0,005	DIN EN 12393-2 : 2014-03 (mod.) / DIN EN 12393-3 : 2014-01 (mod.)(KI) u)
Bifenthrin	mg/kg	<0,01	DIN EN 12393-2 : 2014-03 (mod.) / DIN EN 12393-3 : 2014-01 (mod.)(KI) u)
Bromophos-ethyl	mg/kg	<0,01	DIN EN 12393-2 : 2014-03 (mod.) / DIN EN 12393-3 : 2014-01 (mod.)(KI) u)
Bromophos-methyl	mg/kg	<0,01	DIN EN 12393-2 : 2014-03 (mod.) / DIN EN 12393-3 : 2014-01 (mod.)(KI) u)
Chlorphenvinphos	mg/kg	<0,01	DIN EN 12393-2 : 2014-03 (mod.) / DIN EN 12393-3 : 2014-01 (mod.)(KI) u)

max Maximum value.

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Chlorpyrifos	mg/kg	<0,01	DIN EN 12393-2 : 2014-03 (mod.) / DIN EN 12393-3 : 2014-01 (mod.)(KI) u)
Chlorpyrifos-methyl	mg/kg	<0,01	DIN EN 12393-2 : 2014-03 (mod.) / DIN EN 12393-3 : 2014-01 (mod.)(KI) u)
Chlorthion	mg/kg	<0,01	DIN EN 12393-2 : 2014-03 (mod.) / DIN EN 12393-3 : 2014-01 (mod.)(KI) u)
Cyfluthrin	mg/kg	<0,01	DIN EN 12393-2 : 2014-03 (mod.) / DIN EN 12393-3 : 2014-01 (mod.)(KI) u)
Cypermethrin	mg/kg	<0,01	DIN EN 12393-2 : 2014-03 (mod.) / DIN EN 12393-3 : 2014-01 (mod.)(KI) u)
Deltamethrin (cis-Deltamethrin)	mg/kg	<0,01	DIN EN 12393-2 : 2014-03 (mod.) / DIN EN 12393-3 : 2014-01 (mod.)(KI) u)
Diazinon	mg/kg	<0,01	DIN EN 12393-2 : 2014-03 (mod.) / DIN EN 12393-3 : 2014-01 (mod.)(KI) u)
Dichlorvos	mg/kg	<0,01	DIN EN 12393-2 : 2014-03 (mod.) / DIN EN 12393-3 : 2014-01 (mod.)(KI) u)
Ethion	mg/kg	<0,01	DIN EN 12393-2 : 2014-03 (mod.) / DIN EN 12393-3 : 2014-01 (mod.)(KI) u)
Fenitrothion	mg/kg	<0,01	DIN EN 12393-2 : 2014-03 (mod.) / DIN EN 12393-3 : 2014-01 (mod.)(KI) u)
Fenprophathrin	mg/kg	<0,01	DIN EN 12393-2 : 2014-03 (mod.) / DIN EN 12393-3 : 2014-01 (mod.)(KI) u)
Fenthion	mg/kg	<0,01	DIN EN 12393-2 : 2014-03 (mod.) / DIN EN 12393-3 : 2014-01 (mod.)(KI) u)
lambda-Cyhalothrin	mg/kg	<0,01	DIN EN 12393-2 : 2014-03 (mod.) / DIN EN 12393-3 : 2014-01 (mod.)(KI) u)
Malathion	mg/kg	<0,01	DIN EN 12393-2 : 2014-03 (mod.) / DIN EN 12393-3 : 2014-01 (mod.)(KI) u)
Mecarbame	mg/kg	<0,01	DIN EN 12393-2 : 2014-03 (mod.) / DIN EN 12393-3 : 2014-01 (mod.)(KI) u)
Methidathion	mg/kg	<0,01	DIN EN 12393-2 : 2014-03 (mod.) / DIN EN 12393-3 : 2014-01 (mod.)(KI) u)
Parathion-ethyl	mg/kg	<0,01	DIN EN 12393-2 : 2014-03 (mod.) / DIN EN 12393-3 : 2014-01 (mod.)(KI) u)
Parathion-methyl	mg/kg	<0,01	DIN EN 12393-2 : 2014-03 (mod.) / DIN EN 12393-3 : 2014-01 (mod.)(KI) u)
Permethrin	mg/kg	<0,01	DIN EN 12393-2 : 2014-03 (mod.) / DIN EN 12393-3 : 2014-01 (mod.)(KI) u)
Pirimiphos-ethyl	mg/kg	<0,01	DIN EN 12393-2 : 2014-03 (mod.) / DIN EN 12393-3 : 2014-01 (mod.)(KI) u)
Pirimiphos-methyl	mg/kg	<0,01	DIN EN 12393-2 : 2014-03 (mod.) / DIN EN 12393-3 : 2014-01 (mod.)(KI) u)
Profenofos	mg/kg	<0,01	DIN EN 12393-2 : 2014-03 (mod.) / DIN EN 12393-3 : 2014-01 (mod.)(KI) u)
Sulfotep	mg/kg	<0,01	DIN EN 12393-2 : 2014-03 (mod.) / DIN EN 12393-3 : 2014-01 (mod.)(KI) u)

Pesticides Multi Residue Method LCMSMS

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Malathion	mg/kg	<0,01	DIN EN 12393-2 : 2014-03 (mod.) / DIN EN 12393-3 : 2014-01 (mod.)(Kl)

Non-dioxinlike PCB's

PCB-28	µg/kg	0,336	equivalent to NEN EN 16215 / QMP 504_VW 609
PCB-52	µg/kg	0,388	equivalent to NEN EN 16215 / QMP 504_VW 609
PCB-101	µg/kg	0,149	equivalent to NEN EN 16215 / QMP 504_VW 609
PCB-138	µg/kg	0,363	equivalent to NEN EN 16215 / QMP 504_VW 609
PCB-153	µg/kg	0,431	equivalent to NEN EN 16215 / QMP 504_VW 609
PCB-180	µg/kg	0,692	equivalent to NEN EN 16215 / QMP 504_VW 609
Sum PCB (ICES - 6)	µg/kg	2,4	200 ^{max} calculation ICES-6

Dioxinlike PCB's

PCB 77	ng/kg	<10,0	equivalent to NEN EN 16215 / QMP 504_VW 609
PCB 81	ng/kg	<10,0	equivalent to NEN EN 16215 / QMP 504_VW 609
PCB 105	ng/kg	50,6	equivalent to NEN EN 16215 / QMP 504_VW 609
PCB 114	ng/kg	<10,0	equivalent to NEN EN 16215 / QMP 504_VW 609
PCB 118	ng/kg	138	equivalent to NEN EN 16215 / QMP 504_VW 609
PCB 123	ng/kg	<10,0	equivalent to NEN EN 16215 / QMP 504_VW 609
PCB 126	ng/kg	<1,00	equivalent to NEN EN 16215 / QMP 504_VW 609
PCB 156	ng/kg	54,2	equivalent to NEN EN 16215 / QMP 504_VW 609
PCB 157	ng/kg	13,6	equivalent to NEN EN 16215 / QMP 504_VW 609
PCB 167	ng/kg	18,5	equivalent to NEN EN 16215 / QMP 504_VW 609
PCB 169	ng/kg	<1,00	equivalent to NEN EN 16215 / QMP 504_VW 609
PCB 189	ng/kg	89,2	equivalent to NEN EN 16215 / QMP 504_VW 609
TEQ-WHO (upper-bound, dl PCB)	ng/kg	0,146 ^{xxj}	Calculation WHO 2005 (s. Anm.)

Dioxins and Dibenzofurans

2,3,7,8-Tetra CDD	ng/kg	<0,0500	equivalent to NEN EN 16215 / QMP 504_VW 609
1,2,3,7,8-Penta CDD	ng/kg	<0,0500	equivalent to NEN EN 16215 / QMP 504_VW 609
1,2,3,4,7,8-Hexa CDD	ng/kg	0,106	equivalent to NEN EN 16215 / QMP 504_VW 609
1,2,3,6,7,8-Hexa CDD	ng/kg	0,0879	equivalent to NEN EN 16215 / QMP 504_VW 609
1,2,3,7,8,9-Hexa CDD	ng/kg	<0,0500	equivalent to NEN EN 16215 / QMP 504_VW 609
1,2,3,4,6,7,8-HpCDD	ng/kg	0,223	equivalent to NEN EN 16215 / QMP 504_VW 609
Octa CDD	ng/kg	3,50	equivalent to NEN EN 16215 / QMP 504_VW 609
2,3,7,8-Tetra CDF	ng/kg	0,0836	equivalent to NEN EN 16215 / QMP 504_VW 609
1,2,3,7,8-Penta CDF	ng/kg	<0,0500	equivalent to NEN EN 16215 / QMP 504_VW 609
2,3,4,7,8-Penta CDF	ng/kg	<0,0500	equivalent to NEN EN 16215 / QMP 504_VW 609
1,2,3,4,7,8-Hexa CDF	ng/kg	0,0807	equivalent to NEN EN 16215 / QMP 504_VW 609

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	Unit	EU		Method
		Result	regulations	
1,2,3,6,7,8-Hexa CDF	ng/kg	0,0554		equivalent to NEN EN 16215 / QMP 504 VW 609
1,2,3,7,8,9-Hexa CDF	ng/kg	<0,0500		equivalent to NEN EN 16215 / QMP 504 VW 609
2,3,4,6,7,8-Hexa CDF	ng/kg	<0,0500		equivalent to NEN EN 16215 / QMP 504 VW 609
1,2,3,4,6,7,8-Hepta CDF	ng/kg	<0,200		equivalent to NEN EN 16215 / QMP 504 VW 609
1,2,3,4,7,8,9-Hepta CDF	ng/kg	<0,200		equivalent to NEN EN 16215 / QMP 504 VW 609
Octa CDF	ng/kg	<2,00		equivalent to NEN EN 16215 / QMP 504 VW 609
TEQ-WHO (upper-bound, only PCDD/F)	ng/kg	0,181 ^{xx)}	1,75 ^{max}	Calculation WHO 2005 (s. Anm.)
TEQ-WHO total (upper-bound, Dioxins + dl PCB)	ng/kg	0,326 ^{xx)}	6 ^{max}	Calculation WHO 2005 (s. Anm.)

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

xx) For each single result below the LOD, the LOD was used for the calculation, for each single result between LOD and LOQ, the LOQ was used for the calculation.

Details regarding measuring uncertainty will be provided upon request.

u) Forwarded to an accredited Agrolab group laboratory

Agrolab group laboratories

Analysed by

(KI) AGROLAB Location Kiel, Dr.-Hell-Str. 6, 24107 Kiel, for the cited method accredited according to ISO/IEC 17025:2005, certificate of Accreditation: D-PL-14082-01-00

Methods

DIN EN 12393-2 : 2014-03 (mod.) / DIN EN 12393-3 : 2014-01 (mod.)

According to the extent of the analysis the sample complies with the requirements of: EU Regulations

Start of testing: 23.01.2019

End of testing:

The analytical results are only valid for the delivered sample material. A plausibility check is hardly possible for samples of unknown origin. Duplication of this document or of parts of it requires the authorization from laboratory.




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Customer Service