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Person in charge Mr. M. Krück - 721
Client support Mr. M. Krück - 721

Report date 13.05.2008

Analytical report: AR-08-JJ-048733-01



Sample Code 703-2008-00403230

Reference	Fish Oil 18/12
Client Sample Code	803S117
Number	1
Amount	151 g
Reception temperature	room temperature
Ordered by	Ms. Anja Helen Haugom
Sample sender	Ms. Anja Helen Haugom
Sender	DHL
Received on	15.04.2008
Packaging	glass bottle with screw closure
Start/end of analyses	15.04.2008 / 13.05.2008

TEST RESULTS

Physikalisch-chemische Untersuchung

J1001	Sample preparation		
Method:	§64 LFGB L 00.00-19/1, microwave digestion by pressure		
J1013	Lead (Pb)		
Method:	§64 LFGB L00.00-19/3, AAS-Gr.		
	Lead (Pb)	<0.02	* mg/kg
J1005	Cadmium (Cd)		
Method:	§64 LFGB L00.00-19/3, AAS-Gr.		
	Cadmium (Cd)	<0.005	* mg/kg
J1018	Mercury (Hg)		
Method:	§64 LFGB L00.00-19/4, AAS-cold vapour		
	Mercury (Hg)	<0.005	* mg/kg
J1003	Arsenic (As)		
Method:	analog §64 LFGB L 00.00-19/3, AAS-Gr.		
	Arsenic (As)	<0.05	* mg/kg
J1042	Copper (Cu)		
Method:	EN ISO 11885, mod., ICP-OES		
	Copper (Cu)	<0.05	* mg/kg
J1043	Iron (Fe)		
Method:	EN ISO 11885, mod., ICP-OES		
	Iron (Fe)	<0.1	* mg/kg

Wiertz-Eggert-Jörissen
CY010 PCB ~ 7 Indicator ~ food / feed

Method: HRMS

Analysed by partner laboratory Eurofins GfA, Hamburg

PCB IUPAC 28	<68.2	*	pg/g
PCB IUPAC 52	<93.8	*	pg/g
PCB IUPAC 101	<199	*	pg/g
PCB IUPAC 118	77.0		pg/g
PCB IUPAC 138	268		pg/g
PCB IUPAC 153	409		pg/g
PCB IUPAC 180	300		pg/g
Total 7 Indicator PCB incl. LOQ	1420		pg/g

A7347 PCB ~ dioxin-like / 12 WHO ~ food / feed

Method: HRMS

Analysed by partner laboratory Eurofins GfA, Hamburg

PCB IUPAC 77	< 3.69	*	pg/g
PCB IUPAC 81	< 0.68	*	pg/g
PCB IUPAC 126	< 0.85	*	pg/g
PCB IUPAC 169	< 3.41	*	pg/g
PCB IUPAC 105	27.1		pg/g
PCB IUPAC 114	< 2.76	*	pg/g
PCB IUPAC 118	77.0		pg/g
PCB IUPAC 123	< 2.84	*	pg/g
PCB IUPAC 156	21.7		pg/g
PCB IUPAC 157	5.81		pg/g
PCB IUPAC 167	12.8		pg/g
PCB IUPAC 189	< 4.83	*	pg/g
WHO(1998)-PCB TEQ incl. LOQ	0.146		pg/g

A7158 PCDD/F ~ 17 congeners ~ food / feed

Method: EN 1948 modified, HRMS

Analysed by partner laboratory Eurofins GfA, Hamburg

2,3,7,8-TetraCDD	< 0.06	*	pg/g
1,2,3,7,8-PentaCDD	< 0.05	*	pg/g
1,2,3,4,7,8-HexaCDD	< 0.11	*	pg/g
1,2,3,6,7,8-HexaCDD	< 0.20	*	pg/g
1,2,3,7,8,9-HexaCDD	< 0.11	*	pg/g
1,2,3,4,6,7,8-HeptaCDD	< 0.14	*	pg/g
OctaCDD	< 0.80	*	pg/g
2,3,7,8-TetraCDF	< 0.1	*	pg/g
1,2,3,7,8-PentaCDF	< 0.09	*	pg/g
2,3,4,7,8-PentaCDF	< 0.09	*	pg/g
1,2,3,4,7,8-HexaCDF	< 0.09	*	pg/g
1,2,3,6,7,8-HexaCDF	< 0.09	*	pg/g
1,2,3,7,8,9-HexaCDF	< 0.09	*	pg/g
2,3,4,6,7,8-HexaCDF	< 0.09	*	pg/g
1,2,3,4,6,7,8-HeptaCDF	< 0.12	*	pg/g
1,2,3,4,7,8,9-HeptaCDF	< 0.11	*	pg/g
OctaCDF	< 0.23	*	pg/g
WHO(1998)-PCDD/F-TEQ incl. LOQ	0.253		pg/g

JJ07U Sum of dioxins, furans and dioxin-like PCBs (WHO-PCDD/F-PCB-TEQ)

Method: Internal Method, calculated

Total (WHO-PCDD/F-PCB-TEQ)	0.399		pg/g
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CYR21 PBDE (polybrominated diphenyl ethers) ~ biota

Method: LRMS

Analysed by partner laboratory Eurofins GfA, Hamburg

2,2',4'-TriBDE (BDE-17)	<0.03	*	µg/kg
2,4,4'-TriBDE (BDE-28)	<0.03	*	µg/kg
Total TriBDE	ND		µg/kg
2,2',4,5'-TetraBDE (BDE-49)	<0.04	*	µg/kg
2,3',4',6'-TetraBDE (BDE-71)	<0.04	*	µg/kg
2,2',4,4'-TetraBDE (BDE-47)	0.12		µg/kg
2,3',4,4'-TetraBDE (BDE-66)	<0.04	*	µg/kg
3,3',4,4'-TetraBDE (BDE-77)	<0.04	*	µg/kg

Wiertz-Eggert-Jörissen

Total TetraBDE	0.12	µg/kg
2,2',4,4',6-PentaBDE (BDE-100)	<0.05	* µg/kg
2,3',4,4',6-PentaBDE (BDE-119)	<0.05	* µg/kg
2,2',4,4',5-PentaBDE (BDE-99)	<0.05	* µg/kg
2,2',3,4,4'-PentaBDE (BDE-85)	<0.05	* µg/kg
3,3',4,4',5-PentaBDE (BDE-126)	<0.05	* µg/kg
Total PentaBDE	ND	µg/kg
2,2',4,4',5,6'-HexaBDE (BDE-154)	<0.06	* µg/kg
2,2',4,4',5,5'-HexaBDE (BDE-153)	<0.06	* µg/kg
2,2',3,4,4',5'-HexaBDE (BDE-138)	<0.06	* µg/kg
Total HexaBDE	ND	µg/kg
2,2',3',4,4',5,6'-HeptaBDE (BDE-183)	<0.10	* µg/kg
2,3,3',4,4',5,6-HeptaBDE (BDE-190)	<0.10	* µg/kg
Total HeptaBDE	ND	µg/kg
2,2',3,4,4',5,5',6-OctaBDE (BDE-203)	<0.20	* µg/kg
Total OctaBDE	ND	µg/kg
2,2',3,3',4,4',5,6,6'-NonaBDE (BDE-207)	<0.20	* µg/kg
Total NonaBDE	ND	µg/kg
DecaBDE (BDE-209)	<1.0	* µg/kg

J7519 Polycyclic Aromatic Hydrocarbons (PAH)

Method: Internal Method, GC-MS

Fluorene	6.9	µg/kg
Phenanthrene	2.4	µg/kg
Anthracene	0.5	µg/kg
Fluoranthene	1.6	µg/kg
Pyrene	1.9	µg/kg
Benzo(a)anthracene	1.3	µg/kg
Chrysene/Triphenylene	0.6	µg/kg
Benzo(b)fluoranthene	<0.5	* µg/kg
Benzo(k)-fluoranthene	<0.5	* µg/kg
Benzo(a)pyrene	<0.5	* µg/kg
Indeno(1,2,3-cd)pyrene	<0.5	* µg/kg
Dibenzo(a,h)anthracene	<0.5	* µg/kg
Benzo(ghi)perylene	<0.5	* µg/kg
Sum of "heavy" PAH (>=5 rings)	Inapplicable	
Sum of all positive identified PAH	15.2	µg/kg

SP401 Organochlorine Pesticides incl. Pyrethroids

Method: § 64 LFGB L00.00-34, GC-ECD

Analysed by partner laboratory Eurofins Dr. Specht Laboratorien

Organochlorine pesticides

Not Detected

SP403 Organophosphorus Pesticides

Method: § 64 LFGB L00.00-34, GC-FPD

Analysed by partner laboratory Eurofins Dr. Specht Laboratorien

Organophosphorus pesticides

Not Detected

SP152 Toxaphene Congeners (Parlar Congeners)

Method: LMBG L57.05.01/3, GC-ECD

Analysed by partner laboratory Eurofins Dr. Specht Laboratorien

Toxaphene Parlar 26	<0.02	* mg/kg
Toxaphene Parlar 50	<0.02	* mg/kg
Toxaphene Parlar 62	<0.02	* mg/kg

* = Below indicated quantification level

JUDGEMENT

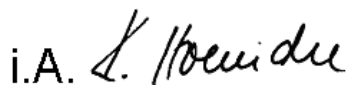
According to Article 1 of the Regulation (EC) No. 1881/2006 foodstuffs indicated in Annex I, Section 5 must not, when placed on the market, contain higher dioxin levels than those specified.

The maximum levels, expressed in WHO toxic equivalents using the WHO-TEFs (toxic equivalency factors, 1997) for the sum of dioxins and furans (WHO-PCDD/F-TEQ) or the sum of dioxins, furans and dioxin-like PCBs (WHO-PCDD/F-PCB-TEQ) are:

	(WHO-PCDD/F-TEQ)	(WHO-PCDD/F-PCB-TEQ)
5.5 Oils and fats		
- Animal fat		
-- of ruminants	3 pg/g fat	4,5 pg/g fat
-- of poultry and farmed game	2 pg/g fat	4,0 pg/g fat
-- of pigs	1 pg/g fat	1,5 pg/g fat
-- mixed animal fats	2 pg/g fat	3,0 pg/g fat
- Vegetable oils and fats	0,75 pg/g fat	1,5 pg/g fat
- Fish oil intended for human consumption	2 pg/g fat	10,0 pg/g fat

Considering this limit, the a.m. sample meets this requirement.

Signature



Dr. C. Hummert / Dr. R. Gatermann / T. Herrmann
(General Managers)