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Napro Pharma AS
attn. Mrs. Aashild Alne
Strandgata 60

Person in charge Mr. M. Krück - 721

6270 Brattvaag
NORWAY

Report date 28.04.2006

Analytical report: AR-06-JJ-036326-01



Sample Code 703-2006-00035857

Reference	Cod Liver Oil / 7.4.2006
Lot-no.	604F14 (603S142)
Number	1
Amount	abt. 60 ml
Reception temperature	room temperature
Ordered by	Mrs. Aashild Alne
Sample sender	Mrs. Aashild Alne
Sender	DHL / letter of 07.04.06 / M.Uksnoy
Received on	13.04.2006
Packaging	glass bottle with screw closure
Start/end of analyses	13/04/2006 / 27/04/2006

TEST RESULTS

Physical-chemical Analysis

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

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J1043	Iron (Fe)		
Method:	DIN EN ISO 11885, mod., ICP		
Iron (Fe)		<0.1	* mg/kg
CY010	Indicators PCBS		
Method:	GC-HRMS		
Analysed by partner laboratory GfA mbh			
PCB IUPAC 28		<113	* ng/kg
PCB IUPAC 52		137	ng/kg
PCB IUPAC 101		840	ng/kg
PCB IUPAC 118		1150	ng/kg
PCB IUPAC 138		7000	ng/kg
PCB IUPAC 153		5260	ng/kg
PCB IUPAC 180		4920	ng/kg
A7347	PCBs dioxin-like (also called WHO- or co-PCBs)		
Method:	GC-HRMS		
Analysed by partner laboratory GfA mbh			
PCB IUPAC 77		<11.3	* pg/g
PCB IUPAC 81		<5.6	* pg/g
PCB IUPAC 126		<2.8	* pg/g
PCB IUPAC 169		<5.6	* pg/g
PCB IUPAC 105		431	pg/g
PCB IUPAC 114		47.3	pg/g
PCB IUPAC 118		1150	pg/g
PCB IUPAC 123		<13.2	* pg/g
PCB IUPAC 156		303	pg/g
PCB IUPAC 157		86.5	pg/g
PCB IUPAC 167		192	pg/g
PCB IUPAC 189		54.3	pg/g
TEQ Dioxin-like PCBs (WHO) incl LOQ		0.73	pg/g
A7158	PCDD/F ~ 17 congeners ~ feed/food (Polychlorinated Dioxins and Furans)		
Method:	EN 1948 modified, HRGC-HRMS		
Analysed by partner laboratory GfA mbh			
2,3,7,8-TetraCDD		<0.06	* pg/g
1,2,3,7,8-PentaCDD		<0.09	* pg/g
1,2,3,4,7,8-HexaCDD		<0.08	* pg/g
1,2,3,6,7,8-HexaCDD		<0.08	* pg/g
1,2,3,7,8,9-HexaCDD		<0.08	* pg/g
1,2,3,4,6,7,8-HeptaCDD		<0.56	* pg/g
OctaCDD		<1.41	* pg/g
2,3,7,8-TetraCDF		0.27	pg/g
1,2,3,7,8-PentaCDF		<0.09	* pg/g
2,3,4,7,8-PentaCDF		<0.10	* pg/g
1,2,3,4,7,8-HexaCDF		<0.08	* pg/g
1,2,3,6,7,8-HexaCDF		<0.08	* pg/g
1,2,3,7,8,9-HexaCDF		<0.10	* pg/g
2,3,4,6,7,8-HexaCDF		<0.08	* pg/g
1,2,3,4,6,7,8-HeptaCDF		<0.56	* pg/g
1,2,3,4,7,8,9-HeptaCDF		<0.56	* pg/g
OctaCDF		<1.41	* pg/g
TEQ (WHO) PCDD/F incl. LOD		0.31	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)		1.040	pg/g

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CYR21 PBDE (Polybrominated Diphenyl Ethers) ~ biota

Method: GC / MSD

Analysed by partner laboratory GfA mbh

2,2',4'-TriBDE (BDE-17)	<0.01	*	µg/kg
2,4,4'-TriBDE (BDE-28)	0.05		µg/kg
3,4,4'-TriBDE (BDE-37)	<0.01	*	µg/kg
Total TriBDE	0.05		µg/kg
2,4,4',6-TetraBDE (BDE-75)	<0.02	*	µg/kg
2,2',4,5'-TetraBDE (BDE-49)	0.41		µg/kg
2,3',4',6-TetraBDE (BDE-71)	<0.02	*	µg/kg
2,2',4,4'-TetraBDE (BDE-47)	2.87		µg/kg
2,3',4,4'-TetraBDE (BDE-66)	0.06		µg/kg
3,3',4,4'-TetraBDE (BDE-77)	<0.02	*	µg/kg
Total TetraBDE	3.51		µg/kg
2,2',3,4,4',6-PentaBDE (BDE-100)	0.88		µg/kg
2,3',4,4',6-PentaBDE (BDE-119)	0.03		µg/kg
2,2',4,4',5-PentaBDE (BDE-99)	0.17		µg/kg
2,2',3,4,4'-PentaBDE (BDE-85)	<0.03	*	µg/kg
3,3',4,4',5-PentaBDE (BDE-126)	0.04		µg/kg
Total PentaBDE	1.15		µg/kg
2,2',4,4',5,6'-HexaBDE (BDE-154)	0.74		µg/kg
2,2',4,4',5,5'-HexaBDE (BDE-153)	0.06		µg/kg
2,2',3,4,4',5'-HexaBDE (BDE-138)	<0.03	*	µg/kg
Total HexaBDE	0.85		µg/kg
2,2',3',4,4',5,6'-HeptaBDE (BDE-183)	<0.05	*	µg/kg
2,3,3',4,4',5,6-HeptaBDE (BDE-190)	<0.05	*	µg/kg
Total HeptaBDE	not applied		µg/kg
2,2',3,4,4',5,5',6-OctaBDE (BDE-203)	<0.10	*	µg/kg
Total OctaBDE	not applied		µg/kg
2,2',3,3',4,4',5,6,6'-NonaBDE (BDE-207)	<0.20	*	µg/kg
Total NonaBDE	not applied		µg/kg
DecaBDE (BDE-209)	<1.0	*	µg/kg

JJ036 Polycyclic aromatic hydrocarbons (PAH)

Method: internal method, GC-MS

Fluorene	40		µg/kg
Phenanthrene	13		µg/kg
Anthracene	3		µg/kg
Fluoranthene	2.9		µg/kg
Pyrene	1.5		µg/kg
Benzo(a)anthracene	0.7		µg/kg
Chrysene/Triphenylene	1.3		µg/kg
Benzo(b)fluoranthene	0.7		µg/kg
Benzo-(k)-fluoranthene	<0.5	*	µg/kg
Benzo(a)pyrene	1		µg/kg
Indeno(1,2,3-cd)pyrene	<0.5	*	µg/kg
Dibenzo(a,h)anthracene	<0.5	*	µg/kg
Benzo(g,h,i)perylene	<0.5	*	µg/kg
Sum of "heavy" PAH (>=5 rings)	1.7		µg/kg
Sum of all positive identified PAH	64.1		µg/kg

S0401 Organochlorine Pesticides

Method: LMBG L00.00-34, GC-ECD

Analysed by partner laboratory Dr. Specht Laboratorien

DDT (total)	0.01		mg/kg
p,p'-DDE	0.01		mg/kg
Other organochlorine pesticides	Not Detected		

Wiertz-Eggert-Jörissen

S0403 Organophosphorus Pesticides

Method: LMBG L00.00-34, GC-FPD
 Analysed by partner laboratory Dr. Specht Laboratorien
 Organophosphorus pesticides

Not Detected

* = Below indicated quantification level

JUDGEMENT

According to Article 1 of the Regulation (EC) No. 466/2001 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 / Dr. W. Winkelmann