

REPORT

Report No.: 357446/3 modified

Sample lab ID: 0002668946

Customer name/address:	BIOKÖR Technológiai és Környezetvédelmi Kft. 1089 Budapest Bláthy Ottó utca 41.
Project:	Analysis of fish (Biota) (2016/E/08146)
Description of sample:	Red Mullet (Galata)
Sample ID:	
Producer:	
Sample type:	Meat and meat based products
Sampling by:	BIOKÖR Technológiai és Környezetvédelmi Kft.
Sampling date / Sampling place:	11.07.2016
Packaging / Quantity:	Plastic bag / 2*2000 g
Time of shipment:	08.08.2016. 15:40
Beginning of analysis / end:	08.08.2016. - 15.09.2016.
Comments:	

Chemical-physical parameters

Parameter	Result	Standards
Mercury (mg/kg wet net weight)	0.04 ±0.004	Preparatory: MSZ EN 13805:2015 Measurement: EPA Method 6020A:2007
Perfluorooctanoic acid (µg/kg wet net weight)*	3.1 ±1.6	WBSE-121:2016
Perfluorooctane sulfonate (µg/kg wet net weight)*	4.1 ±2.1	

* Not accredited by NAT

Pesticides

Parameter	Result	Standards
Dicofol (µg/kg wet net weight)#	<10	§ 64 LFGB L 00.00 34 (2010)
Hexachlorobenzene (µg/kg wet net weight)#	<2	
Hexachlorobutadiene (µg/kg wet net weight)#	<10	
Heptachlor (µg/kg wet net weight)#	0.02 ±0.01	
Cis-Heptachlor epoxide (µg/kg wet net weight)#	0.09 ±0.045	
Trans-Heptachlor epoxide (µg/kg wet net weight)#	0.17 ±0.085	
Heptachlor and Heptachlor-epoxide (3) (b) (µg/kg wet net weight)#	0.28 ±0.14	

(#) Arithmetic sum of the individual components



Certificate validity check.

The laboratory is accredited under Reg.
 No: NAT-1-1009/2015 by NAT

Project:
 Analysis of fish (Biota)
 (2016/E/08146)

Report No.:
 357446/3 modified;
 17.02.2017.

Polycyclic aromatic hydrocarbons (PAH) content

Parameter	Result	Standards
Napthalene (µg/kg wet net weight)**	2.82 ±0.42	MSZ ISO 1443:2002 MSZ EN ISO 15753:2007
Anthracene (µg/kg wet net weight)**	0.27 ±0.04	
Fluoranthrene (µg/kg wet net weight)**	1.12 ±0.17	
Benzo[a]Pyrene (µg/kg wet net weight)**	<0.2	
Acenaphthene (µg/kg wet net weight)**	<0.2	
Benzo[a]Anthracene (µg/kg wet net weight)**	<0.2	
Benzo[b]Fluoranthrene (µg/kg wet net weight)**	<0.2	
Benzo[ghi]perilén (µg/kg wet net weight)**	<0.3	
Benzo[k]Fluoranthrene (µg/kg wet net weight)**	<0.2	
Dibenzo[a,h]Anthracene (µg/kg wet net weight)**	<0.2	
Phenantrene (µg/kg wet net weight)**	4.16 ±0.62	
Fluorene (µg/kg wet net weight)**	5.48 ±0.82	
Indeno[1,2,3-cd]Pyrene (µg/kg wet net weight)**	<1.0	
Chrysene (µg/kg wet net weight)**	0.24 ±0.04	
Pyrene (µg/kg wet net weight)**	1.76 ±0.26	

** Not accredited by NAT. The study was conducted by the NAT-1-1582/2013 recognized accredited testing laboratory Food Analytica Ltd. Laboratory

PBDE content

Parameter	Result	Standards
PBDE 28 (ng/kg wet net weight)***	<0.1	EPA 1614:2007
PBDE 47 (ng/kg wet net weight)***	19.5 ±1.95	
PBDE 99 (ng/kg wet net weight)***	9.45 ±0.945	
PBDE 100 (ng/kg wet net weight)***	15.6 ±1.56	
PBDE 153 (ng/kg wet net weight)***	13.9 ±1.39	
PBDE 154 (ng/kg wet net weight)***	<0,1	
PBDE 183 (ng/kg wet net weight)***	<0,1	

*** Not accredited by NAT. The study was conducted by the NAT-1-1666/2015 recognized accredited testing laboratory Bálint Analitika Kft. Laboratory; Detection limit: 0.1 ng/kg



Certificate validity check.

The laboratory is accredited under Reg.
 No: NAT-1-1009/2015 by NAT

Project:
 Analysis of fish (Biota)
 (2016/E/08146)

Report No.:
 357446/3 modified;
 17.02.2017.

HBCDD content

Parameter	Result	Standards
Hexabromocyclododecane (µg/kg wet net weight)***	0.23 ±0.023	SM-SZ-86:2015 (Extraction with dichloromethane, solid phase purification, HPLC-MS measurement)

*** Not accredited by NAT. The study was conducted by the NAT-1-1666/2015 recognized accredited testing laboratory Bálint Analitika Kft. Laboratory; Detection limit: 0.1 ng/kg

PCDD/PCDF content***

Applied standard

SM-ÉODF-01:2011 (in house method based on method of EPA 8280 B:2007)

Parameter	TEF	Result (ng/kg wet net weight)	Result (ng/kg wet net weight TEQ)	Detection limit (ng/kg wet net weight)	Result ## (ng/kg wet net weight TEQ)
PCDD-s					
2,3,7,8-TeCDD	1	nd	nd	0.100	0.10000
1,2,3,7,8-PeCDD	1	nd	nd	0.100	0.10000
1,2,3,4,7,8-HxCDD	0.1	nd	nd	0.200	0.02000
1,2,3,6,7,8-HxCDD	0.1	nd	nd	0.200	0.02000
1,2,3,7,8,9-HxCDD	0.1	nd	nd	0.200	0.02000
1,2,3,4,6,7,8-HpCDD	0.01	nd	nd	0.200	0.00200
OCDD	0.0003	nd	nd	0.400	0.00012
PCDF-s					
2,3,7,8-TeCDF	0.1	nd	nd	0.100	0.01000
1,2,3,7,8-PeCDF	0.03	nd	nd	0.100	0.00300
2,3,4,7,8-PeCDF	0.3	nd	nd	0.100	0.03000
1,2,3,4,7,8-HxCDF	0.1	nd	nd	0.200	0.02000
1,2,3,6,7,8-HxCDF	0.1	nd	nd	0.200	0.02000
2,3,4,6,7,8-HxCDF	0.1	nd	nd	0.200	0.02000
1,2,3,7,8,9-HxCDF	0.1	nd	nd	0.200	0.02000
1,2,3,4,6,7,8-HpCDF	0.01	nd	nd	0.200	0.00200
1,2,3,4,7,8,9-HpCDF	0.01	nd	nd	0.200	0.00200
OCDF	0.0003	nd	nd	0.400	0.00012
In all		0.000	0.000		0.389

The detection limits calculated amount

*** Not accredited by NAT. The study was conducted by the NAT-1-1666/2015 recognized accredited testing laboratory Bálint Analitika Kft. Laboratory



Certificate validity check.

The laboratory is accredited under Reg.
 No: NAT-1-1009/2015 by NAT

Project:
 Analysis of fish (Biota)
 (2016/E/08146)

Report No.:
 357446/3 modified;
 17.02.2017.

dl-PCB content^{*}****Applied standard**

SM-ÉODF-01:2011 (in house method based on method of EPA 8280 B:2007)

Parameter	TEF	Result	Result	Detection limit	Result ##
		(ng/kg wet net weight)	(ng/kg wet net weight TEQ)	(ng/kg wet net weight)	(ng/kg wet net weight TEQ)
non-orto PCB-s					
PCB 77	0.0001	nd	nd	1.000	0.00010
PCB 81	0.0003	nd	nd	1.000	0.00030
PCB 126	0.1	nd	nd	1.000	0.10000
PCB 169	0.03	nd	nd	1.000	0.03000
mono-orto PCB-s					
PCB 105	0.00003	733.0	0.02199 ±0.002199	1.000	0.02199
PCB 114	0.00003	40.5	0.00122 ±0.000122	1.000	0.00122
PCB 118	0.00003	2180.0	0.06540 ±0.006540	1.000	0.06540
PCB 123	0.00003	172.0	0.00516 ±0.000516	1.000	0.00516
PCB 156	0.00003	293.0	0.00879 ±0.000879	1.000	0.00879
PCB 157	0.00003	117.0	0.00351 ±0.000351	1.000	0.00351
PCB 167	0.00003	743.0	0.02229 ±0.00229	1.000	0.02229
PCB 189	0.00003	60.4	0.00181 ±0.000181	1.000	0.00181
In all		4338.900	0.1302 ±0.01302		0.261

The detection limits calculated amount

*** Not accredited by NAT. The study was conducted by the NAT-1-1666/2015 recognized accredited testing laboratory Bálint Analitika Kft. Laboratory

Eszter Dési
 Deputy Head of Laboratory

This test report was generated from a validated system and is valid without a signature.

The analytics designated „Not accredited by NAT” are outside the scope of our laboratory’s accreditation.

The results refer only to the samples delivered to the Wessling Hungary Ltd.

The report shall not be reproduced except in full without the written approval of the Wessling Hungary Ltd.



Certificate validity check.

The laboratory is accredited under Reg.
 No: NAT-1-1009/2015 by NAT

Project:
 Analysis of fish (Biota)
 (2016/E/08146)

Report No.:
 357446/3 modified;
 17.02.2017.

REPORT

Report No.: 357447/3 modified

Sample lab ID: 0002391250

Customer name/address:	BIOKÖR Technológiai és Környezetvédelmi Kft. 1089 Budapest Bláthy Ottó utca 41.
Project:	Analysis of fish (Biota) (2016/E/09106)
Description of sample:	Trachurus mediterraneus ponticus
Sample ID:	
Producer:	
Sample type:	Meat and meat based products
Sampling by:	IO-BAS (Bulgaria)
Sampling date / Sampling place:	17.07.2016. / Sozopol
Packaging / Quantity:	Plastic bag / 5000 g
Time of shipment:	02.09.2016. 07:00
Beginning of analysis / end:	02.09.2016. - 27.09.2016.
Comments:	

Chemical-physical parameters

Parameter	Result	Standards
Mercury (mg/kg wet net weight)	0.15 ±0.015	Preparatory: MSZ EN 13805:2015 Measurement: EPA Method 6020A:2007
Perfluorooctanoic acid (µg/kg wet net weight)*	<2.5	WBSE-121:2016
Perfluorooctane sulfonate (µg/kg wet net weight)*	<2.5	

* Not accredited by NAT

Pesticides

Parameter	Result	Standards
Dicofol (µg/kg wet net weight)#	<10	§ 64 LFGB L 00.00 34 (2010)
Hexachlorobenzene (µg/kg wet net weight)#	<2 ±	
Hexachlorobutadiene (µg/kg wet net weight)#	<10	
Heptachlor (µg/kg wet net weight)#	0.01 ±0.005	
Cis-Heptachlor epoxide (µg/kg wet net weight)#	0.17 ±0.085	
Trans-Heptachlor epoxide (µg/kg wet net weight)#	2.23 ±1.12	
Heptachlor and Heptachlor-epoxide (3) (b) (µg/kg wet net weight)#	2.41 ±1.21	

(#) Arithmetic sum of the individual components



Certificate validity check.

 The laboratory is accredited under Reg.
 No: NAT-1-1009/2015 by NAT

 Project:
 Analysis of fish (Biota)
 (2016/E/09106)

 Report No.:
 357447/3 modified;
 17.02.2017.

Polycyclic aromatic hydrocarbons (PAH) content

Parameter	Result	Standards
Napthalene ($\mu\text{g}/\text{kg}$ wet net weight)**	4.12 \pm 0.62	MSZ ISO 1443:2002 MSZ EN ISO 15753:2007
Anthracene ($\mu\text{g}/\text{kg}$ wet net weight)**	0.32 \pm 0.05	
Fluoranthrene ($\mu\text{g}/\text{kg}$ wet net weight)**	1.30 \pm 0.19	
Benzo[a]Pyrene ($\mu\text{g}/\text{kg}$ wet net weight)**	0.20 \pm 0.03	
Acenaphthene ($\mu\text{g}/\text{kg}$ wet net weight)**	<0.2	
Benzo[a]Anthracene ($\mu\text{g}/\text{kg}$ wet net weight)**	0.27 \pm 0.04	
Benzo[b]Fluoranthrene ($\mu\text{g}/\text{kg}$ wet net weight)**	0.32 \pm 0.05	
Benzo[ghi]perilén ($\mu\text{g}/\text{kg}$ wet net weight)**	<0.3	
Benzo[k]Fluoranthrene ($\mu\text{g}/\text{kg}$ wet net weight)**	0.22 \pm 0.03	
Dibenzo[a,h]Anthracene ($\mu\text{g}/\text{kg}$ wet net weight)**	<0.2	
Phenantrene ($\mu\text{g}/\text{kg}$ wet net weight)**	3.24 \pm 0.49	
Fluorene ($\mu\text{g}/\text{kg}$ wet net weight)**	6.16 \pm 0.92	
Indeno[1,2,3-cd]Pyrene ($\mu\text{g}/\text{kg}$ wet net weight)**	<1.0	
Chrysene ($\mu\text{g}/\text{kg}$ wet net weight)**	0.32 \pm 0.05	
Pyrene ($\mu\text{g}/\text{kg}$ wet net weight)**	1.72 \pm 0.26	

** Not accredited by NAT. The study was conducted by the NAT-1-1582/2013 recognized accredited testing laboratory Food Analytica Ltd. Laboratory

PBDE content

Parameter	Result	Standards
PBDE 28 (ng/kg wet net weight)***	nd	EPA 1614:2007
PBDE 47 (ng/kg wet net weight)***	116 \pm 11.6	
PBDE 99 (ng/kg wet net weight)***	22.6 \pm 2.26	
PBDE 100 (ng/kg wet net weight)***	24.9 \pm 2.49	
PBDE 153 (ng/kg wet net weight)***	20.1 \pm 2.01	
PBDE 154 (ng/kg wet net weight)***	5.10 \pm 0.51	
PBDE 183 (ng/kg wet net weight)***	nd	

*** Not accredited by NAT. The study was conducted by the NAT-1-1666/2015 recognized accredited testing laboratory Bálint Analitika Kft. Laboratory. Detection limit: 0.1 ng/kg



Certificate validity check.

The laboratory is accredited under Reg.
 No: NAT-1-1009/2015 by NAT

Project:
 Analysis of fish (Biota)
 (2016/E/09106)

Report No.:
 357447/3 modified;
 17.02.2017.

HBCDD content

Parameter	Result	Standards
Hexabromocyclododecane (µg/kg wet net weight)***	0.43 ±0.043	SM-SZ-86:2015 (Extraction with dichloromethane, the solid phase purification, HPLC-MS measurement)

*** Not accredited by NAT. The study was conducted by the NAT-1-1666/2015 recognized accredited testing laboratory Bálint Analitika Kft. Laboratory. Detection limit: 0.02 ng/kg

PCDD/PCDF content***

Applied standard

SM-ÉODF-01:2011 (in house method based on method of EPA 8280 B:2007)

Parameter	TEF	Result (ng/kg wet net weight)	Result (ng/kg wet net weight TEQ)	Detection limit (ng/kg wet net weight)	Result ## (ng/kg wet net weight TEQ)
PCDD-s					
2,3,7,8-TeCDD	1	nd	nd	0.100	0.10000
1,2,3,7,8-PeCDD	1	nd	nd	0.100	0.10000
1,2,3,4,7,8-HxCDD	0.1	nd	nd	0.200	0.02000
1,2,3,6,7,8-HxCDD	0.1	nd	nd	0.200	0.02000
1,2,3,7,8,9-HxCDD	0.1	nd	nd	0.200	0.02000
1,2,3,4,6,7,8-HpCDD	0.01	nd	nd	0.200	0.00200
OCDD	0.0003	nd	nd	0.400	0.00012
PCDF-s					
2,3,7,8-TeCDF	0.1	nd	nd	0.100	0.01000
1,2,3,7,8-PeCDF	0.03	nd	nd	0.100	0.00300
2,3,4,7,8-PeCDF	0.3	nd	nd	0.100	0.03000
1,2,3,4,7,8-HxCDF	0.1	nd	nd	0.200	0.02000
1,2,3,6,7,8-HxCDF	0.1	nd	nd	0.200	0.02000
2,3,4,6,7,8-HxCDF	0.1	nd	nd	0.200	0.02000
1,2,3,7,8,9-HxCDF	0.1	nd	nd	0.200	0.02000
1,2,3,4,6,7,8-HpCDF	0.01	nd	nd	0.200	0.00200
1,2,3,4,7,8,9-HpCDF	0.01	nd	nd	0.200	0.00200
OCDF	0.0003	nd	nd	0.400	0.00012
In all		0.000	0.000		0.389

The detection limits calculated amount

*** Not accredited by NAT. The study was conducted by the NAT-1-1666/2015 recognized accredited testing laboratory Bálint Analitika Kft. Laboratory



Certificate validity check.

The laboratory is accredited under Reg.
 No: NAT-1-1009/2015 by NAT

Project:
 Analysis of fish (Biota)
 (2016/E/09106)

Report No.:
 357447/3 modified;
 17.02.2017.

dl-PCB content^{***}

Applied standard

SM-ÉODF-01:2011 (in house method based on method of EPA 8280 B:2007)

Parameter	TEF	Result	Result	Detection limit	Result ##
		(ng/kg wet net weight)	(ng/kg wet net weight TEQ)	(ng/kg wet net weight)	(ng/kg wet net weight TEQ)
non-orto PCB-s					
PCB 77	0.0001	nd	nd	1.000	0.00010
PCB 81	0.0003	nd	nd	1.000	0.00030
PCB 126	0.1	nd	nd	1.000	0.10000
PCB 169	0.03	nd	nd	1.000	0.03000
mono-orto PCB-s					
PCB 105	0.00003	173.0	0.00519 ±0.000519	1.000	0.00519
PCB 114	0.00003	13.0	0.00039 ±0.000039	1.000	0.00039
PCB 118	0.00003	560.0	0.01680 ±0.001680	1.000	0.01680
PCB 123	0.00003	32.4	0.00097 ±0.000097	1.000	0.00097
PCB 156	0.00003	63.6	0.00191 ±0.000191	1.000	0.00191
PCB 157	0.00003	25.9	0.00078 ±0.000078	1.000	0.00078
PCB 167	0.00003	175.0	0.00525 ±0.000525	1.000	0.00525
PCB 189	0.00003	8.4	0.00025 ±0.000025	1.000	0.00025
In all		1051.300	0.0315 ±0.00315		0.162

The detection limits calculated amount

*** Not accredited by NAT. The study was conducted by the NAT-1-1666/2015 recognized accredited testing laboratory Bálint Analitika Kft. Laboratory

Eszter Dési
 Deputy Head of Laboratory

This test report was generated from a validated system and is valid without a signature.

The analytics designated „Not accredited by NAT” are outside the scope of our laboratory’s accreditation.

The results refer only to the samples delivered to the Wessling Hungary Ltd.

The report shall not be reproduced except in full without the written approval of the Wessling Hungary Ltd.



Certificate validity check.

The laboratory is accredited under Reg.
 No: NAT-1-1009/2015 by NAT

Project:
 Analysis of fish (Biota)
 (2016/E/09106)

Report No.:
 357447/3 modified;
 17.02.2017.

REPORT

Report No.: 357448/3 modified

Sample lab ID: 0002391251

Customer name/address:	BIOKÖR Technológiai és Környezetvédelmi Kft. 1089 Budapest Bláthy Ottó utca 41.
Project:	Analysis of fish (Biota) (2016/E/09106)
Description of sample:	Trachurus mediterraneus ponticus
Sample ID:	
Producer:	
Sample type:	Meat and meat based products
Sampling by:	IO-BAS (Bulgaria)
Sampling date / Sampling place:	20.08.2016. / Shkorpilovici
Packaging / Quantity:	Plastic bag / 4750 g
Time of shipment:	02.09.2016. 07:00
Beginning of analysis / end:	02.09.2016. - 27.09.2016.
Comments:	

Chemical-physical parameters

Parameter	Result	Standards
Mercury (mg/kg wet net weight)	0.16 ±0.016	Preparatory: MSZ EN 13805:2015 Measurement: EPA Method 6020A:2007
Perfluorooctanoic acid (µg/kg wet net weight)*	<2.5	WBSE-121:2016
Perfluorooctane sulfonate (µg/kg wet net weight)*	<2.5	

* Not accredited by NAT

Pesticides

Parameter	Result	Standards
Dicofol (µg/kg wet net weight)#	<10	§ 64 LFGB L 00.00 34 (2010)
Hexachlorobenzene (µg/kg wet net weight)#	<2	
Hexachlorobutadiene (µg/kg wet net weight)#	<10	
Heptachlor (µg/kg wet net weight)#	<0.01	
Cis-Heptachlor epoxide (µg/kg wet net weight)#	0.10 ±0.05	
Trans-Heptachlor epoxide (µg/kg wet net weight)#	1.44 ±0.72	
Heptachlor and Heptachlor-epoxide (3) (b) (µg/kg wet net weight)#	1.54 ±0.77	

(#) Arithmetic sum of the individual components



Certificate validity check.

 The laboratory is accredited under Reg.
 No: NAT-1-1009/2015 by NAT

 Project:
 Analysis of fish (Biota)
 (2016/E/09106)

 Report No.:
 357448/3 modified;
 17.02.2017.

Polycyclic aromatic hydrocarbons (PAH) content

Parameter	Result	Standards
Napthalene ($\mu\text{g}/\text{kg}$ wet net weight)**	2.12 \pm 0.32	MSZ ISO 1443:2002 MSZ EN ISO 15753:2007
Anthracene ($\mu\text{g}/\text{kg}$ wet net weight)**	0.21 \pm 0.03	
Fluoranthrene ($\mu\text{g}/\text{kg}$ wet net weight)**	0.98 \pm 0.15	
Benzo[a]Pyrene ($\mu\text{g}/\text{kg}$ wet net weight)**	<0.2	
Acenaphthene ($\mu\text{g}/\text{kg}$ wet net weight)**	<0.2	
Benzo[a]Anthracene ($\mu\text{g}/\text{kg}$ wet net weight)**	<0.2	
Benzo[b]Fluoranthrene ($\mu\text{g}/\text{kg}$ wet net weight)**	0.24 \pm 0.04	
Benzo[ghi]perilén ($\mu\text{g}/\text{kg}$ wet net weight)**	<0.3	
Benzo[k]Fluoranthrene ($\mu\text{g}/\text{kg}$ wet net weight)**	<0.2	
Dibenzo[a,h]Anthracene ($\mu\text{g}/\text{kg}$ wet net weight)**	<0.2	
Phenantrene ($\mu\text{g}/\text{kg}$ wet net weight)**	4.10 \pm 0.61	
Fluorene ($\mu\text{g}/\text{kg}$ wet net weight)**	4.70 \pm 0.70	
Indeno[1,2,3-cd]Pyrene ($\mu\text{g}/\text{kg}$ wet net weight)**	<1.0	
Chrysene ($\mu\text{g}/\text{kg}$ wet net weight)**	<0.2	
Pyrene ($\mu\text{g}/\text{kg}$ wet net weight)**	1.52 \pm 0.23	

** Not accredited by NAT. The study was conducted by the NAT-1-1582/2013 recognized accredited testing laboratory Food Analytica Ltd. Laboratory

PBDE content

Parameter	Result	Standards
PBDE 28 (ng/kg wet net weight)***	nd	EPA 1614:2007
PBDE 47 (ng/kg wet net weight)***	116 \pm 11.6	
PBDE 99 (ng/kg wet net weight)***	26.9 \pm 2.69	
PBDE 100 (ng/kg wet net weight)***	22.0 \pm 2.20	
PBDE 153 (ng/kg wet net weight)***	18.6 \pm 1.86	
PBDE 154 (ng/kg wet net weight)***	nd	
PBDE 183 (ng/kg wet net weight)***	nd	

*** Not accredited by NAT. The study was conducted by the NAT-1-1666/2015 recognized accredited testing laboratory Bálint Analitika Kft. Laboratory. Detection limit: 0.1 ng/kg



Certificate validity check.

The laboratory is accredited under Reg.
 No: NAT-1-1009/2015 by NAT

Project:
 Analysis of fish (Biota)
 (2016/E/09106)

Report No.:
 357448/3 modified;
 17.02.2017.

HBCDD content

Parameter	Result	Standards
Hexabromocyclododecane (µg/kg wet net weight)***	0.22 ±0.022	SM-SZ-86:2015 (Extraction with dichloromethane, the solid phase purification, HPLC-MS measurement)

*** Not accredited by NAT. The study was conducted by the NAT-1-1666/2015 recognized accredited testing laboratory Bálint Analitika Kft. Laboratory. Detection limit: 0.02 ng/kg

PCDD/PCDF content***

Applied standard

SM-ÉODF-01:2011 (in house method based on method of EPA 8280 B:2007)

Parameter	TEF	Result (ng/kg wet net weight)	Result (ng/kg wet net weight TEQ)	Detection limit (ng/kg wet net weight)	Result ## (ng/kg wet net weight TEQ)
PCDD-s					
2,3,7,8-TeCDD	1	nd	nd	0.100	0.10000
1,2,3,7,8-PeCDD	1	nd	nd	0.100	0.10000
1,2,3,4,7,8-HxCDD	0.1	nd	nd	0.200	0.02000
1,2,3,6,7,8-HxCDD	0.1	nd	nd	0.200	0.02000
1,2,3,7,8,9-HxCDD	0.1	nd	nd	0.200	0.02000
1,2,3,4,6,7,8-HpCDD	0.01	nd	nd	0.200	0.00200
OCDD	0.0003	nd	nd	0.400	0.00012
PCDF-s					
2,3,7,8-TeCDF	0.1	nd	nd	0.100	0.01000
1,2,3,7,8-PeCDF	0.03	nd	nd	0.100	0.00300
2,3,4,7,8-PeCDF	0.3	nd	nd	0.100	0.03000
1,2,3,4,7,8-HxCDF	0.1	nd	nd	0.200	0.02000
1,2,3,6,7,8-HxCDF	0.1	nd	nd	0.200	0.02000
2,3,4,6,7,8-HxCDF	0.1	nd	nd	0.200	0.02000
1,2,3,7,8,9-HxCDF	0.1	nd	nd	0.200	0.02000
1,2,3,4,6,7,8-HpCDF	0.01	nd	nd	0.200	0.00200
1,2,3,4,7,8,9-HpCDF	0.01	nd	nd	0.200	0.00200
OCDF	0.0003	nd	nd	0.400	0.00012
In all		0.000	0.000		0.389

The detection limits calculated amount

*** Not accredited by NAT. The study was conducted by the NAT-1-1666/2015 recognized accredited testing laboratory Bálint Analitika Kft. Laboratory



Certificate validity check.

The laboratory is accredited under Reg.
 No: NAT-1-1009/2015 by NAT

Project:
 Analysis of fish (Biota)
 (2016/E/09106)

Report No.:
 357448/3 modified;
 17.02.2017.

dl-PCB content***

Applied standard

SM-ÉODF-01:2011 (in house method based on method of EPA 8280 B:2007)

Parameter	TEF	Result	Result	Detection limit	Result ##
		(ng/kg wet net weight)	(ng/kg wet net weight TEQ)	(ng/kg wet net weight)	(ng/kg wet net weight TEQ)
non-orto PCB-s					
PCB 77	0.0001	nd	nd	1.000	0.00010
PCB 81	0.0003	nd	nd	1.000	0.00030
PCB 126	0.1	nd	nd	1.000	0.10000
PCB 169	0.03	nd	nd	1.000	0.03000
mono-orto PCB-s					
PCB 105	0.00003	152.0	0.00456 ±0.000456	1.000	0.00456
PCB 114	0.00003	nd	nd	1.000	0.00003
PCB 118	0.00003	521.0	0.01563 ±0.001563	1.000	0.01563
PCB 123	0.00003	25.9	0.00078 ±0.000078	1.000	0.00078
PCB 156	0.00003	48.9	0.00147 ±0.000147	1.000	0.00147
PCB 157	0.00003	18.3	0.00055 ±0.000055	1.000	0.00055
PCB 167	0.00003	145.0	0.00435 ±0.000435	1.000	0.00435
PCB 189	0.00003	5.3	0.00016 ±0.000016	1.000	0.00016
In all		916.360	0.0275 ±0.00275		0.158

The detection limits calculated amount

*** Not accredited by NAT. The study was conducted by the NAT-1-1666/2015 recognized accredited testing laboratory Bálint Analitika Kft. Laboratory

Eszter Dési
 Deputy Head of Laboratory

This test report was generated from a validated system and is valid without a signature.

The analytics designated „Not accredited by NAT” are outside the scope of our laboratory's accreditation.

The results refer only to the samples delivered to the Wessling Hungary Ltd.

The report shall not be reproduced except in full without the written approval of the Wessling Hungary Ltd.



Certificate validity check.

The laboratory is accredited under Reg.
 No: NAT-1-1009/2015 by NAT

Project:
 Analysis of fish (Biota)
 (2016/E/09106)

Report No.:
 357448/3 modified;
 17.02.2017.