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INDIEN

Person in charge Mr. F. Schmidt
ASM Mr. F. Schmidt

Report date 04.02.2019

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Analytical report AR-19-GF-005407-01



Sample Code 710-2019-02007002

Reference	V2G
Sample sender	Mr. Pravin Casoy
Reception date time	25.01.2019
Transport by	DHL
Client sample code	V2G
Number of containers	1
Reception temperature	room temperature
End analysis	04.02.2019

Test results

GFL05	Dioxins and Furans (17 PCDD/F) (°) (#)		
Method	Internal, GLS DF 110, GC-MS/MS		
	2,3,7,8-TetraCDD	< 0.0123	pg/g
	1,2,3,7,8-PentaCDD	< 0.0162	pg/g
	1,2,3,4,7,8-HexaCDD	< 0.0247	pg/g
	1,2,3,6,7,8-HexaCDD	0.0479	pg/g
	1,2,3,7,8,9-HexaCDD	0.0429	pg/g
	1,2,3,4,6,7,8-HeptaCDD	0.692	pg/g
	OctaCDD	5.27	pg/g
	2,3,7,8-TetraCDF	0.0561	pg/g
	1,2,3,7,8-PentaCDF	0.0331	pg/g
	2,3,4,7,8-PentaCDF	0.0507	pg/g
	1,2,3,4,7,8-HexaCDF	0.0486	pg/g
	1,2,3,6,7,8-HexaCDF	< 0.0351	pg/g
	1,2,3,7,8,9-HexaCDF	< 0.0260	pg/g

The results of examination refer exclusively to the checked samples.
 Duplicates - even in parts - must be authorized by the test laboratory in written form.
 Eurofins GfA Lab Service GmbH · Neuländer Kamp 1 a · D-21079 Hamburg
 Headquarters: Eurofins GfA Lab Service GmbH – Neuländer Kamp 1a D-21079 Hamburg
 HRB 115907 AG Hamburg
 General Managers: Dr. Scarlett Biselli
 VAT No.: DE 275912372
 Hypovereinsbank • Bank code: 207 300 17 • Account No.: 7000002400 • SWIFT-BIC: HYVEDEMM33
 IBAN: DE12 2073 0017 7000 0024 00



Deutsche
Akkreditierungsstelle
D-PL-14629-01-00

Durch die Deutsche Akkreditierungsstelle
GmbH (DAkkS) akkreditiertes Prüflaboratorium

DIN EN ISO/IEC 17025:2005

Die Akkreditierung gilt nur für die in der Urkunde
aufgeführten Prüfverfahren

2,3,4,6,7,8-HexaCDF	0.0589	pg/g
1,2,3,4,6,7,8-HeptaCDF	0.173	pg/g
1,2,3,4,7,8,9-HeptaCDF	0.0481	pg/g
OctaCDF	0.764	pg/g
WHO(2005)-PCDD/F TEQ (lower-bound)	0.0526	pg/g
WHO(2005)-PCDD/F TEQ (medium-bound)	0.0712	pg/g
WHO(2005)-PCDD/F TEQ (upper-bound)	0.0898	pg/g
GFL11 polychlorinated biphenyls (12 WHO PCB + 6 ICES PCB) (°) (#)		
Method	Internal, GLS DF 110, GC-MS/MS	
PCB 77	< 1.43	pg/g
PCB 81	< 0.175	pg/g
PCB 105	< 3.24	pg/g
PCB 114	< 0.344	pg/g
PCB 118	< 9.10	pg/g
PCB 123	< 0.260	pg/g
PCB 126	< 0.162	pg/g
PCB 156	< 1.43	pg/g
PCB 157	< 0.266	pg/g
PCB 167	< 0.715	pg/g
PCB 169	< 0.780	pg/g
PCB 189	< 0.260	pg/g
WHO(2005)-PCB TEQ (lower-bound)	ND	pg/g
WHO(2005)-PCB TEQ (medium-bound)	0.0202	pg/g
WHO(2005)-PCB TEQ (upper-bound)	0.0403	pg/g
PCB 28	< 0.0650	ng/g
PCB 52	< 0.0650	ng/g
PCB 101	< 0.0650	ng/g
PCB 138	< 0.0650	ng/g
PCB 153	< 0.0650	ng/g
PCB 180	< 0.0650	ng/g
Total 6 ndl-PCB (lower-bound)	ND	ng/g
Total 6 ndl-PCB (medium-bound)	0.195	ng/g
Total 6 ndl-PCB (upper-bound)	0.390	ng/g
GFTE1 TEQ-Totals WHO-PCDD/F and PCB (°) (#)		
Method	Internal, GLS DF 110, 120, 130, 140, Calculation	
WHO(2005)-PCDD/F+PCB TEQ (lower-bound)	0.0526	pg/g
WHO(2005)-PCDD/F+PCB TEQ (medium-bound)	0.0913	pg/g
WHO(2005)-PCDD/F+PCB TEQ (upper-bound)	0.130	pg/g

J1003 Arsenic (As)

Method §64 LFGB L 00.00-19/3 (2004-07), mod., CON-PV 00508 (2015-06), GF-AAS

Subcontracted to a Eurofins laboratory accredited for this test.

Arsenic (As) 2.0 mg/kg

J1005 Cadmium (Cd)

Method §64 LFGB L00.00-19/3, CON-PV 00508 (2015-06), GF-AAS

Subcontracted to a Eurofins laboratory accredited for this test.

Cadmium (Cd) <0.1 * mg/kg

J1013 Lead (Pb)

Method §64 LFGB L00.00-19/3, CON-PV 00508 (2015-06), GF-AAS

Subcontracted to a Eurofins laboratory accredited for this test.

Lead (Pb) 2.9 mg/kg

J1018 Mercury (Hg)

Method §64 LFGB L00.00-19/4 (2003-12), mod., CON-PV 00509 (2013-06), CV-AAS

Subcontracted to a Eurofins laboratory accredited for this test.

Mercury (Hg) 0.008 mg/kg

* = below indicated quantification level

(°) = The test was performed at the laboratory site: Am Neuländer Gewerbepark 4

(#) = Eurofins GfA Lab Service GmbH (Hamburg) is accredited for this test.

< - Concentration below the indicated limit of quantification (LOQ)

ND - not determined since none of the corresponding congeners was above the LOQ

JUDGEMENT

The analytical results of the above mentioned sample meet the specifications of the FEDIOL's Code of Practice & Quality Assurance Agreement on the Purchase and Use Conditions of Fresh Bleaching Earth and Filter Aids for Vegetable Oils and Fats Refineries and Integrated Plants 09th January 2017 (Ref. 16COD137). In detail:

The sum of dioxins / furans and dioxin-like PCBs of the above mentioned sample (expressed as WHO(2005)-PCDD/F+PCB TEQ (upper-bound)) is below FEDIOL's maximum level of 1.5 ng WHO-PCDD/F-PCB-TEQ/kg.

The sum of non dioxin like PCBs of the above mentioned sample (expressed as Total 6 ndl-PCB (upper-bound)) is below FEDIOL's maximum level of 10 µg/kg.

The concentration of Cadmium (Cd) in the above mentioned sample is below FEDIOL's maximum level of 2 mg/kg.

The concentration of Lead (Pb) in the above mentioned sample is below FEDIOL's maximum level of 10 mg/kg.

The concentration of Mercury (Hg) in the above mentioned sample is below FEDIOL's maximum level of 0.1 mg/kg.

The concentration of Arsenic (As) in the above mentioned sample is below FEDIOL's maximum level of 12 mg/kg.

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Analytical Service Manager (Fernando Schmidt)