

Eurofins Agro Testing Ukraine LLC
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UKRAINE

Person in charge Mr. P. Piecuch
ASM Mr. P. Piecuch

Report date 30.10.2017

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Analytical report AR-17-GF-039402-01



Sample Code 710-2017-23343001

Reference	Walnut without shell, supplier Ukrwalnut
Sample sender	005-10530-0000885114
Reception date time	Ms. Tetiana Demchenko
Transport by	20.10.2017
Purchase order date	Bote
Client sample code	18.10.2017
Number of containers	PL104/17
Reception temperature	1
End analysis	room temperature
	30.10.2017

Test results

GFL06 Dioxins and Furans (17 PCDD/F) (°) (#)
Method Internal method, GLS DF 110, GC-MS/MS

2,3,7,8-TetraCDD	< 0.0215	pg/g
1,2,3,7,8-PentaCDD	< 0.0282	pg/g
1,2,3,4,7,8-HexaCDD	< 0.0429	pg/g
1,2,3,6,7,8-HexaCDD	< 0.0588	pg/g
1,2,3,7,8,9-HexaCDD	< 0.0554	pg/g
1,2,3,4,6,7,8-HeptaCDD	< 0.0904	pg/g
OctaCDD	< 0.655	pg/g
2,3,7,8-TetraCDF	< 0.0588	pg/g
1,2,3,7,8-PentaCDF	< 0.0407	pg/g
2,3,4,7,8-PentaCDF	< 0.0633	pg/g
1,2,3,4,7,8-HexaCDF	< 0.0667	pg/g
1,2,3,6,7,8-HexaCDF	< 0.0610	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
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IBAN: DE37 2505 0000 0199 8786 95



Durch die Deutsche Akkreditierungsstelle
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DIN EN ISO/IEC 17025:2005

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aufgeführten Prüfverfahren

1,2,3,7,8,9-HexaCDF	< 0.0452	pg/g
2,3,4,6,7,8-HexaCDF	< 0.0554	pg/g
1,2,3,4,6,7,8-HeptaCDF	< 0.0633	pg/g
1,2,3,4,7,8,9-HeptaCDF	< 0.0441	pg/g
OctaCDF	< 0.136	pg/g
WHO(2005)-PCDD/F TEQ (lower-bound)	ND	pg/g
WHO(2005)-PCDD/F TEQ (upper-bound)	0.117	pg/g

GFL12 polychlorinated biphenyls (12 WHO PCB + 6 ICES PCB) (°) (#)

Method EC Reg 589/2014 (food) and EC Reg 709/2014 (feed) , Internal method, GLS DF 110, GC-MS/MS

PCB 77	< 6.78	pg/g
PCB 81	< 0.305	pg/g
PCB 105	< 4.41	pg/g
PCB 114	< 0.599	pg/g
PCB 118	< 15.8	pg/g
PCB 123	< 0.452	pg/g
PCB 126	< 0.282	pg/g
PCB 156	< 2.49	pg/g
PCB 157	< 0.463	pg/g
PCB 167	< 1.24	pg/g
PCB 169	< 1.36	pg/g
PCB 189	< 0.452	pg/g
WHO(2005)-PCB TEQ (lower-bound)	ND	pg/g
WHO(2005)-PCB TEQ (upper-bound)	0.0705	pg/g
PCB 28	< 0.113	ng/g
PCB 52	< 0.113	ng/g
PCB 101	< 0.113	ng/g
PCB 138	< 0.113	ng/g
PCB 153	< 0.113	ng/g
PCB 180	< 0.113	ng/g
Total 6 ndl-PCB (lower-bound)	ND	ng/g
Total 6 ndl-PCB (upper-bound)	0.678	ng/g

GFTE1 TEQ-Totals WHO-PCDD/F and PCB (°) (#)

Method Internal method, GLS DF 110, 120, 130, 140, Calculation

WHO(2005)-PCDD/F+PCB TEQ (lower-bound)	ND	pg/g
WHO(2005)-PCDD/F+PCB TEQ (upper-bound)	0.187	pg/g

(°) = 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)

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

C. Drüppel

Analytical Service Manager (Christian Drüppel)