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an unsere Kunden

Malters, 20. Januar 2019

Dioxin-Analysen

Sehr geehrte Damen und Herren

Wir erlauben uns, Ihnen für die nach Massgabe unseres Prüfplanes im Dezember 2018 an verschiedenen Produktionstagen gezogenen Proben in der Anlage die Dioxin-Analysen vom 14.01.2019 zu überreichen.

Sämtliche Analysen sind konform und einwandfrei.

Der Einfachheit halber listen wir nachfolgend die Chargen und Produkte zu den Analysen:

Report-Nr.	Charge	Produkt
unten links		
14513	34505	Eiweiss hitzeb. Freilandh. EU KAT 1 KG GustOvo
14513	34705	Vollei Freilandhaltung EU KAT 1 KG GustOvo
14513	34707	Rührei Freilandhaltung EU KAT 1 KG GustOvo
14513	35101	Eigelb Freilandhaltung EU KAT 1 KG GustOvo
14514	34506	Eiweiss hitzeb. Freilandhaltung CH 1 KG GustOvo
14514	34511	Rührei Freilandhaltung CH 1 KG GustOvo
14514	34601	Eigelb Freilandhaltung CH 1 KG GustOvo
14514	34603	Vollei Freilandhaltung CH 1 KG GustOvo
14515	111218.02	Eiweiss1 hitzeb. Freilandhaltung CH
14515	111218.08	Vollei-Eiweiss-Mix (90%, 10%) Freilandhaltung CH
14515	121218.07	Vollei Freilandhaltung CH "CoopNaturafarm"
14515	181218.09	Vollei Freilandhaltung CH
14516	111218.03	Eiweiss1 hitzeb. Bodenhaltung CH
14516	111218.09	Vollei Bodenhaltung CH
14516	121218.02	Eigelb Bodenhaltung CH
14517	111218.04	Eiweiss1 hitzeb. Bodenhaltung EU
14517	111218.07	Vollei Bodenhaltung EU Pigment 3,3% Salz KAT
14517	111218.10	Vollei Freilandhaltung EU
14517	121218.09	Vollei Bodenhaltung EU
14517	131218.04	Vollei Freilandhaltung EU Pigment 3,3% Salz KAT
14517	171218.05	Eigelb Bodenhaltung EU

Gerne hoffe ich, Ihnen damit dienen zu können. Bitte zögern Sie nicht, mich bei Fragen oder Wünschen zu kontaktieren.

Mit freundlichen Grüssen

Fischer Eier GmbH
Marco Zürcher



Analysis report

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Authorized by:

Snezana Zeljkovic
 Principle analyst

Date report (dd-mm-yyyy):

14-01-2019

Responsible person BDS:

Emiel Felzel
 Head of Testing Laboratory

Information about report

The results of examination refer exclusively to the checked samples.

Results are given in table 1.

Sample characteristics are given in table 2.

The measurement uncertainty for CALUX method is typically below 30%. For the calculation a coverage factor of 1 is used.

If an analysis is accredited by ISO17025 (RvA L401) is indicated by a yes or a no

Date of the performance of the test: 14-01-2019

Table 1 sample analysis results

No.	Client code	Method	Parameter	Result	Conclusion	Cut off	Unit
1	34505, 34705, 34707, 35101	DR CALUX	PCDD/PCDF (BEQ; semi)	LOQ <0.3	compliant	1.7	pg BEQ / gram fat
2	34505, 34705, 34707, 35101	DR CALUX	PCDD/PCDF and dl-PCBs (BEQ; semi)	LOQ <0.6	compliant	3.3	pg BEQ / gram fat

For results below the limit of quantification (LOQ), behind the less than sign the limit of quantification is given

Table 2 sample characteristics

No.	Client code	BDS code	Matrix	ISO17025 (RvAL401)	Date arrival	Sealed
1	34505, 34705, 34707, 35101	33116	Food, egg(product)	yes	02-01-2019	
2	34505, 34705, 34707, 35101	33116	Food, egg(product)	yes	02-01-2019	

For the method DR CALUX and the sum parameter PCDD/PCDF (BEQ; semi) the used method is shake extraction with organic solvents (hexane); the extracts are cleaned on an acid silica column. The cleaned extracts are dissolved in DMSO. The DR CALUX activity is determined (24h exposure). The response of the sample is corrected for the background and subsequently corrected for the apparent bioassay recovery with a reference sample at the level of interest. The evaluation was done on the maximum level for PCDD/F, from which a cut off value has been established (2/3 of maximum level) to determine if a sample is compliant or suspected. As a maximum level the level of the matrix as described in the table above is used. After the evaluation an estimation is given of the sample in the form of a BEQ outcome. The DR CALUX analysis is done according to p-bds-051.

For the method DR CALUX and the sum parameter PCDD/PCDF and dl-PCBs (BEQ; semi) the used method is shake extraction with organic solvents (hexane); the extracts are cleaned on an acid silica column. The cleaned extracts are dissolved in DMSO. The DR CALUX activity is determined (24h exposure). The response of the sample is corrected for the background and subsequently corrected for the apparent bioassay recovery with a reference sample at the level of interest. The evaluation was done on the maximum level for PCDD/F and dl-PCBs, from which a cut off value has been established (2/3 of maximum level) to determine if a sample is compliant or suspected. As a maximum level the level of the matrix as described in the table above is used. After the evaluation an estimation is given of the sample in the form of a BEQ outcome. The DR CALUX analysis is done according to p-bds-051.

All DR CALUX analysis results comply with EU requirements as indicated in Commission Regulation (EU) 2017/644 of 5 April 2017 laying down methods of sampling and analysis for the control of levels of dioxins, dioxin-like PCBs and non-dioxin-like PCBs in certain foodstuffs. Maximal levels according to COMMISSION REGULATION (EU) 2015/704 of 30 April 2015.



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Date of the performance of the test: 14-01-2019

Table 1 sample analysis results

No.	Client code	Method	Parameter	Result	Conclusion	Cut off	Unit
1	34506, 34511, 34601, 34603	DR CALUX	PCDD/PCDF (BEQ; semi)	LOQ <0.3	compliant	1.7	pg BEQ / gram fat
2	34506, 34511, 34601, 34603	DR CALUX	PCDD/PCDF and dl-PCBs (BEQ; semi)	LOQ <0.6	compliant	3.3	pg BEQ / gram fat

For results below the limit of quantification (LOQ), behind the less than sign the limit of quantification is given

Table 2 sample characteristics

No.	Client code	BDS code	Matrix	ISO17025 (RvA L401)	Date arrival	Sealed
1	34506, 34511, 34601, 34603	33117	Food, egg(product)	yes	02-01-2019	
2	34506, 34511, 34601, 34603	33117	Food, egg(product)	yes	02-01-2019	

For the method DR CALUX and the sum parameter PCDD/PCDF (BEQ; semi) the used method is shake extraction with organic solvents (hexane); the extracts are cleaned on an acid silica column. The cleaned extracts are dissolved in DMSO. The DR CALUX activity is determined (24h exposure). The response of the sample is corrected for the background and subsequently corrected for the apparent bioassay recovery with a reference sample at the level of interest. The evaluation was done on the maximum level for PCDD/F, from which a cut off value has been established (2/3 of maximum level) to determine if a sample is compliant or suspected. As a maximum level the level of the matrix as described in the table above is used. After the evaluation an estimation is given of the sample in the form of a BEQ outcome. The DR CALUX analysis is done according to p-bds-051.

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Date of the performance of the test: 14-01-2019

Table 1 sample analysis results

No.	Client code	Method	Parameter	Result	Conclusion	Cut off	Unit
1	111218.02. 111218.08, 121218.07, 181218.09	DR CALUX	PCDD/PCDF (BEQ; semi)	LOQ <0.5	compliant	1.7	pg BEQ / gram fat
2	111218.02. 111218.08, 121218.07, 181218.09	DR CALUX	PCDD/PCDF and dl-PCBs (BEQ; semi)	1.2	compliant	3.3	pg BEQ / gram fat

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Table 2 sample characteristics

No.	Client code	BDS code	Matrix	ISO17025 (RvAL401)	Date arrival	Sealed
1	111218.02. 111218.08, 121218.07, 181218.09	33118	Food, egg(product)	yes	02-01-2019	
2	111218.02. 111218.08, 121218.07, 181218.09	33118	Food, egg(product)	yes	02-01-2019	

For the method DR CALUX and the sum parameter PCDD/PCDF (BEQ; semi) the used method is shake extraction with organic solvents (hexane); the extracts are cleaned on an acid silica column. The cleaned extracts are dissolved in DMSO. The DR CALUX activity is determined (24h exposure). The response of the sample is corrected for the background and subsequently corrected for the apparent bioassay recovery with a reference sample at the level of interest. The evaluation was done on the maximum level for PCDD/F, from which a cut off value has been established (2/3 of maximum level) to determine if a sample is compliant or suspected. As a maximum level the level of the matrix as described in the table above is used. After the evaluation an estimation is given of the sample in the form of a BEQ outcome. The DR CALUX analysis is done according to p-bds-051.

For the method DR CALUX and the sum parameter PCDD/PCDF and dl-PCBs (BEQ; semi) the used method is shake extraction with organic solvents (hexane); the extracts are cleaned on an acid silica column. The cleaned extracts are dissolved in DMSO. The DR CALUX activity is determined (24h exposure). The response of the sample is corrected for the background and subsequently corrected for the apparent bioassay recovery with a reference sample at the level of interest. The evaluation was done on the maximum level for PCDD/F and dl-PCBs, from which a cut off value has been established (2/3 of maximum level) to determine if a sample is compliant or suspected. As a maximum level the level of the matrix as described in the table above is used. After the evaluation an estimation is given of the sample in the form of a BEQ outcome. The DR CALUX analysis is done according to p-bds-051.

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Date of the performance of the test: 14-01-2019

Table 1 sample analysis results

No.	Client code	Method	Parameter	Result	Conclusion	Cut off	Unit
1	111218.03, 111218.09, 121218.02	DR CALUX	PCDD/PCDF (BEQ; semi)	LOQ <0.3	compliant	1.7	pg BEQ / gram fat
2	111218.03, 111218.09, 121218.02	DR CALUX	PCDD/PCDF and dl-PCBs (BEQ; semi)	0.67	compliant	3.3	pg BEQ / gram fat

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Table 2 sample characteristics

No.	Client code	BDS code	Matrix	ISO17025 (RvA L401)	Date arrival	Sealed
1	111218.03, 111218.09, 121218.02	33119	Food, egg(product)	yes	02-01-2019	
2	111218.03, 111218.09, 121218.02	33119	Food, egg(product)	yes	02-01-2019	

For the method DR CALUX and the sum parameter PCDD/PCDF (BEQ; semi) the used method is shake extraction with organic solvents (hexane); the extracts are cleaned on an acid silica column. The cleaned extracts are dissolved in DMSO. The DR CALUX activity is determined (24h exposure). The response of the sample is corrected for the background and subsequently corrected for the apparent bioassay recovery with a reference sample at the level of interest. The evaluation was done on the maximum level for PCDD/F, from which a cut off value has been established (2/3 of maximum level) to determine if a sample is compliant or suspected. As a maximum level the level of the matrix as described in the table above is used. After the evaluation an estimation is given of the sample in the form of a BEQ outcome. The DR CALUX analysis is done according to p-bds-051.

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Table 1 sample analysis results

No.	Client code	Method	Parameter	Result	Conclusion	Cut off	Unit
1	11218.10, 131218.04, 111218.04, 111218.07, 121218.09, 171218.05	DR CALUX	PCDD/PCDF (BEQ; semi)	LOQ <0.3	compliant	1.7	pg BEQ / gram fat
2	11218.10, 131218.04, 111218.04, 111218.07, 121218.09, 171218.05	DR CALUX	PCDD/PCDF and dl-PCBs (BEQ; semi)	1.1	compliant	3.3	pg BEQ / gram fat

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Table 2 sample characteristics

No.	Client code	BDS code	Matrix	ISO17025 (RvAL401)	Date arrival	Sealed
1	11218.10, 131218.04, 111218.04, 111218.07, 121218.09, 171218.05	33120	Food, egg(product)	yes	02-01-2019	
2	11218.10, 131218.04, 111218.04, 111218.07, 121218.09, 171218.05	33120	Food, egg(product)	yes	02-01-2019	

For the method DR CALUX and the sum parameter PCDD/PCDF (BEQ; semi) the used method is shake extraction with organic solvents (hexane); the extracts are cleaned on an acid silica column. The cleaned extracts are dissolved in DMSO. The DR CALUX activity is determined (24h exposure). The response of the sample is corrected for the background and subsequently corrected for the apparent bioassay recovery with a reference sample at the level of interest. The evaluation was done on the maximum level for PCDD/F, from which a cut off value has been established (2/3 of maximum level) to determine if a sample is compliant or suspected. As a maximum level the level of the matrix as described in the table above is used. After the evaluation an estimation is given of the sample in the form of a BEQ outcome. The DR CALUX analysis is done according to p-bds-051.

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