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an unsere Kunden

Malters, 15. Januar 2021

Dioxin-Analysen

Sehr geehrte Damen und Herren

Wir erlauben uns, Ihnen für die nach Massgabe unseres Prüfplanes im Dezember 2020 an verschiedenen Produktionstagen gezogenen Proben in der Anlage die Dioxin-Analysen vom 14.01.2021 zu überreichen.

Sämtliche Analysen sind konform und einwandfrei.

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

Report-Nr. <i>unten links</i>	Charge	Produkt
17468	33501	Eigelb Freilandhaltung EU KAT 1 KG GustOvo
17468	33604	Eiweiss hitzeb. Freilandh. EU KAT 1 KG GustOvo
17468	33609	Vollei Freilandhaltung EU KAT 1 KG GustOvo
17469	261120.07	Vollei Freilandhaltung CH
17469	271120.01	Eigelb Freilandhaltung CH
17469	271120.05	Vollei Freilandhaltung CH "CoopNaturafarm"
17469	011220.01	Eiweiss1 hitzeb. Freilandhaltung CH
17469	011220.12	Eistreiche GLANZ MP Freilandhaltung CH
17469	101220.xx	Vollei Freilandhaltung CH „Emmental“
17470	261120.02	Vollei Bio Knospe Suisse
17471	33101	Eiweiss hitzeb. Freilandhaltung CH 1 KG GustOvo
17471	33105	Vollei Freilandhaltung CH 1 KG GustOvo
17471	33502	Eigelb Freilandhaltung CH 1 KG GustOvo
17471	33711	Rührei Freilandhaltung CH 1 KG GustOvo
17472	271120.07	Vollei Bodenhaltung CH
17472	011220.02	Eiweiss1 hitzeb. Bodenhaltung CH
17473	011220.03	Eiweiss1 hitzeb. Freilandhaltung EU
17473	021220.04	Vollei Bodenhaltung EU Pigment 3,3% Salz KAT
17473	261120.08	Vollei Freilandhaltung EU
17473	261120.09	Vollei Bodenhaltung EU
17473	271120.02	Eigelb Bodenhaltung EU
17473	301120.04	Eigelb Freilandhaltung 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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Snezana Zeljkovic
 Principle analyst

Date report (dd-mm-yyyy):

14-01-2021

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: 14-01-2021

Table 1 sample analysis results

No.	Client code	Method	Parameter	Result	Conclusion	Cut off	Unit
1	33604 , 33609, 33501	DR CALUX	PCDD/PCDF (BEQ; semi)	LOQ <0.3	compliant	1.7	pg BEQ / gram fat
2	33604 , 33609, 33501	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	33604 , 33609, 33501	39437	Food, egg(product)	yes	05-01-2021	
2	33604 , 33609, 33501	39437	Food, egg(product)	yes	05-01-2021	

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: 14-01-2021

Table 1 sample analysis results

No.	Client code	Method	Parameter	Result	Conclusion	Cut off	Unit
1	011220.01, 271120.01, 271120.05, 261120.07, 101220.xx, 011220.12	DR CALUX	PCDD/PCDF (BEQ; semi)	0.40	compliant	1.7	pg BEQ / gram fat
2	011220.01, 271120.01, 271120.05, 261120.07, 101220.xx, 011220.12	DR CALUX	PCDD/PCDF and dl-PCBs (BEQ; semi)	LOQ <0.7	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	011220.01, 271120.01, 271120.05, 261120.07, 101220.xx, 011220.12	39438	Food, egg(product)	yes	05-01-2021	
2	011220.01, 271120.01, 271120.05, 261120.07, 101220.xx, 011220.12	39438	Food, egg(product)	yes	05-01-2021	

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Date of the performance of the test: 14-01-2021

Table 1 sample analysis results

No.	Client code	Method	Parameter	Result	Conclusion	Cut off	Unit
1	261120.02	DR CALUX	PCDD/PCDF (BEQ; semi)	LOQ <0.3	compliant	1.7	pg BEQ / gram fat
2	261120.02	DR CALUX	PCDD/PCDF and dl-PCBs (BEQ; semi)	LOQ <0.7	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	261120.02	39439	Food, egg(product)	yes	05-01-2021	
2	261120.02	39439	Food, egg(product)	yes	05-01-2021	

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: 14-01-2021

Table 1 sample analysis results

No.	Client code	Method	Parameter	Result	Conclusion	Cut off	Unit
1	33101, 33711, 33502, 33105	DR CALUX	PCDD/PCDF (BEQ; semi)	LOQ <0.3	compliant	1.7	pg BEQ / gram fat
2	33101, 33711, 33502, 33105	DR CALUX	PCDD/PCDF and dl-PCBs (BEQ; semi)	LOQ <0.7	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	33101, 33711, 33502, 33105	39440	Food, egg(product)	yes	05-01-2021	
2	33101, 33711, 33502, 33105	39440	Food, egg(product)	yes	05-01-2021	

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	011220.02, 271120.07	DR CALUX	PCDD/PCDF (BEQ; semi)	0.37	compliant	1.7	pg BEQ / gram fat
2	011220.02, 271120.07	DR CALUX	PCDD/PCDF and dl-PCBs (BEQ; semi)	0.69	compliant	3.3	pg BEQ / gram fat

Table 2 sample characteristics

No.	Client code	BDS code	Matrix	ISO17025 (RvA L401)	Date arrival	Sealed
1	011220.02, 271120.07	39441	Food, egg(product)	yes	05-01-2021	
2	011220.02, 271120.07	39441	Food, egg(product)	yes	05-01-2021	

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	261120.08, 011220.03, 301120.04, 021220.04, 261120.09, 271120.02	DR CALUX	PCDD/PCDF (BEQ; semi)	LOQ <0.3	compliant	1.7	pg BEQ / gram fat
2	261120.08, 011220.03, 301120.04, 021220.04, 261120.09, 271120.02	DR CALUX	PCDD/PCDF and dl-PCBs (BEQ; semi)	LOQ <0.7	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	261120.08, 011220.03, 301120.04, 021220.04, 261120.09, 271120.02	39442	Food, egg(product)	yes	05-01-2021	
2	261120.08, 011220.03, 301120.04, 021220.04, 261120.09, 271120.02	39442	Food, egg(product)	yes	05-01-2021	

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