

Fischer Eier GmbH

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an unsere Kunden

Malters, 15. Januar 2018

Dioxin-Analysen

Sehr geehrte Damen und Herren

Wir erlauben uns, Ihnen für die nach Massgabe unseres Prüfplanes im Dezember 2017 gezogenen Proben in der Anlage die Dioxin-Analysen vom 15.01.2018 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
12982	041217.04	Vollei-Eiweiss-Mix (90%, 10%) Freilandhaltung CH
12982	051217.07	Vollei Freilandhaltung CH "CoopNaturafarm"
12982	051217.12	Eistreiche GLANZ MP Freilandhaltung CH
12982	231217.01	Vollei Freilandhaltung CH Emmentaler H. 1,9% S.
12983	041217.03	Eigelb Bodenhaltung EU
12983	041217.09	Vollei Bodenhaltung EU
12983	051217.05	Vollei Freilandhaltung EU Pigment 3,3% Salz KAT
12983	051217.09	Vollei Freilandhaltung EU
12984	33801	Eigelb Freilandhaltung CH 1 KG GustOvo
12984	33804	Vollei Freilandhaltung CH 1 KG GustOvo
12984	33904	Eiweiss hitzeb. Freilandhaltung CH 1 KG GustOvo
12985	041217.02	Eigelb Bodenhaltung CH
12985	041217.07	Vollei Bodenhaltung CH

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):

15-01-2018

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 is typically below 30%. For the calculation of the uncertainty 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: 15-01-2018

Table 1 sample analysis results

No.	Client code	Method	Parameter	Result	Conclusion	Cut off	Unit
1	051217.12 - 041217.04 - 051217.07 - 231217.01	DR CALUX	PCDD/PCDF (BEQ; semi)	0.67	compliant	1.7	pg BEQ / gram fat
2	051217.12 - 041217.04 - 051217.07 - 231217.01	DR CALUX	PCDD/PCDF and dl-PCBs (BEQ; semi)	1.3	compliant	3.3	pg BEQ / gram fat

Table 2 sample characteristics

No.	Client code	BDS code	Matrix	ISO17025 (RvAL401)	Date arrival	Sealed
1	051217.12 - 041217.04 - 051217.07 - 231217.01	28852	Food, egg(product)	yes	09-01-2018	
2	051217.12 - 041217.04 - 051217.07 - 231217.01	28852	Food, egg(product)	yes	09-01-2018	

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: 15-01-2018

Table 1 sample analysis results

No.	Client code	Method	Parameter	Result	Conclusion	Cut off	Unit
1	041217.03 - 051217.05 - 041217.09 - 051217.09	DR CALUX	PCDD/PCDF (BEQ; semi)	0.58	compliant	1.7	pg BEQ / gram fat
2	041217.03 - 051217.05 - 041217.09 - 051217.09	DR CALUX	PCDD/PCDF and dl-PCBs (BEQ; semi)	1.1	compliant	3.3	pg BEQ / gram fat

Table 2 sample characteristics

No.	Client code	BDS code	Matrix	ISO17025 (RvAL401)	Date arrival	Sealed
1	041217.03 - 051217.05 - 041217.09 - 051217.09	28853	Food, egg(product)	yes	09-01-2018	
2	041217.03 - 051217.05 - 041217.09 - 051217.09	28853	Food, egg(product)	yes	09-01-2018	

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: 15-01-2018

Table 1 sample analysis results

No.	Client code	Method	Parameter	Result	Conclusion	Cut off	Unit
1	33904 - 33804 -33801	DR CALUX	PCDD/PCDF (BEQ; semi)	LOQ <0.3	compliant	1.7	pg BEQ / gram fat
2	33904 - 33804 -33801	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	33904 - 33804 -33801	28854	Food, egg(product)	yes	09-01-2018	
2	33904 - 33804 -33801	28854	Food, egg(product)	yes	09-01-2018	

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: 15-01-2018

Table 1 sample analysis results

No.	Client code	Method	Parameter	Result	Conclusion	Cut off	Unit
1	041217.02 - 041217.07	DR CALUX	PCDD/PCDF (BEQ; semi)	0.61	compliant	1.7	pg BEQ / gram fat
2	041217.02 - 041217.07	DR CALUX	PCDD/PCDF and dl-PCBs (BEQ; semi)	1.3	compliant	3.3	pg BEQ / gram fat

Table 2 sample characteristics

No.	Client code	BDS code	Matrix	ISO17025 (RvAL401)	Date arrival	Sealed
1	041217.02 - 041217.07	28855	Food, egg(product)	yes	09-01-2018	
2	041217.02 - 041217.07	28855	Food, egg(product)	yes	09-01-2018	

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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