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Migration Report

26 May 2025

1 Sample Information

Sample name	Gastrolux Evo
Sample reception	20/03/2025
Sample no.	392-2025-00151401
Analysis period	25/03/2025 - 26/05/2025

2 Brief Evaluation of the Results

Type of analysis	Conclusion	Regulation or protocol
Specific migration of specific PFAS	Pass	EFSA Journal 2020;18(9):6223

Full details based on the testing and direct comparison with limit values are available in the following pages



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3 Applied Test Methods

3.1 General Test References

Method	Parameters	Analysis principle	LOD	Um(%)
DIN EN 13130-1:2004-08 mod. ¹	Preparation for migration	Exposure to 95% ethanol by filling	-	-
Internal Method ^{*2}	Per- and Polyfluoroalkyl Substances (PFAS)	LC-MS/MS	30 - 500 ng/kg	30%

3.2 Test Conditions

Simulant	Technique	Area exposed [dm ²]	Volume (Simulant) [mL]	Migration Conditions
95% ethanol	Filling	8.4	1500	6 Hours at 60 °C

4 Results

4.1 Specific Migration of Per- and Polyfluoroalkyl Substances (PFAS)

Parameters	CAS No.	Food Simulant	Result [ng/kg]	SML value [ng/kg]
PFBS (Perfluorobutanesulfonic acid) *	375-73-5	95% ethanol	< 30	-
PFHxA (Perfluorohexanoic acid) *	307-24-4	95% ethanol	< 30	37.7 [#]
PFHpA (Perfluoroheptanoic acid) *	375-85-9	95% ethanol	< 30	-
PFOA (Perfluorooctanoic acid) *	335-67-1	95% ethanol	< 30	37.7 [#]
PFNA (Perfluorononanoic acid) *	375-95-1	95% ethanol	< 30	37.7 [#]
PFDA (Perfluorodecanoic acid) *	335-76-2	95% ethanol	< 30	-
PFOSA (Perfluorooctane sulfonamide) *	754-91-6	95% ethanol	< 30	-
PFUDA (Perfluoroundecanoic acid) *	2058-94-8	95% ethanol	< 30	-
PFDoA (Perfluorododecanoic acid) *	307-55-1	95% ethanol	< 100	-
PFTeDA (Perfluorotetradecanoic acid) *	376-06-7	95% ethanol	< 100	-
HPFHpA (7H-Perfluoroheptanoic acid) *	1546-95-8	95% ethanol	< 30	-
6:2 FTS (Fluorotelomer sulfonate) (H4PFOS) *	27619-97-2	95% ethanol	< 100	-
PFBA (Perfluorobutanoic acid) *	375-22-4	95% ethanol	< 30	-
PFPeA (Perfluoropentanoic acid) *	2706-90-3	95% ethanol	< 30	-
PFHpS (Perfluoroheptanesulfonic acid) *	375-92-8	95% ethanol	< 30	-
PFOS (Perfluorooctanesulfonic acid) *	1763-23-1	95% ethanol	< 30	37.7 [#]
8:2 FTOH (Fluorotelomer alcohol) *	678-39-7	95% ethanol	< 100	-

¹ Eurofins Consumer Product Testing GmbH : DIN EN ISO/IEC 17025:2018 DAKKS D-PL-14435-01-00

² Eurofins Food & Feed Testing Sweden AB : ISO/IEC 17025:2017 SWEDAC 1977

*: Not accredited

<: Less than

>: Greater than

LOD: Limit of detection

Um(%): The expanded uncertainty Um(%) equals 2 x RSD%. For further information please visit www.eurofins.dk/uncertainty

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Parameters	CAS No.	Food Simulant	Result [ng/kg]	SML value [ng/kg]
EtFOSAA (N-ethylperfluorooctane sulfonamidoacetic acid) *	2991-50-6	95% ethanol	< 30	-
8:2 FTS (Fluorotelomer sulfonate) *	39108-34-4	95% ethanol	< 100	-
PFTTrDA (Perfluorotridecanoic acid) *	72629-94-8	95% ethanol	< 100	-
PFHxDA (Perfluorohexadecanoic acid) *	67905-19-5	95% ethanol	< 30	-
PFODA (Perfluorooctadecanoic acid) *	16517-11-6	95% ethanol	< 30	-
PFHxS (Perfluorohexanesulfonic acid) *	355-46-4	95% ethanol	< 30	-
4:2 FTS (Fluorotelomer sulfonate) *	757124-72-4	95% ethanol	< 30	-
DPOSA (Capstone A) *	80475-32-7	95% ethanol	< 100	-
6:2 FTAB (Capstone B) *	34455-29-3	95% ethanol	< 200	-
PFDS (Perfluorodecanesulfonic acid) *	335-77-3	95% ethanol	< 30	-
PFPeS (Perfluoropentanesulfonic acid) *	2706-91-4	95% ethanol	< 30	-
6:2 FTOH (Fluorotelomer alcohol) *	647-42-7	95% ethanol	< 100	-
10:2 FTOH (Fluorotelomer alcohol) *	865-86-1	95% ethanol	< 100	-
MeFOSA (N-methylperfluorooctane sulfonamide) *	31506-32-8	95% ethanol	< 100	-
EtFOSA (N-ethylperfluorooctane sulfonamide) *	4151-50-2	95% ethanol	< 100	-
MeFOSE (N-methylperfluorooctane sulfonamido ethanol) *	24448-09-7	95% ethanol	< 100	-
EtFOSE (N-ethylperfluorooctane sulfonamido ethanol) *	1691-99-2	95% ethanol	< 100	-
MeFOSAA (N-methylperfluorooctane sulfonamidoacetic acid) *	2355-31-9	95% ethanol	< 30	-
FOSAA (Perfluorooctane sulfonamidoacetic acid) *	2806-24-8	95% ethanol	< 30	-
PFNS (Perfluorononanesulfonic acid) *	68259-12-1	95% ethanol	< 30	-
PFDoS (Perfluorododecanesulfonic acid) *	79780-39-5	95% ethanol	< 100	-
HFPO-DA (GenX) (Hexafluoropropylene oxide dimer acid) *	13252-13-6	95% ethanol	< 30	-
8:2 diPAP (Fluorotelomer phosphate diester) *	678-41-1	95% ethanol	< 30	-
DONA (Dodecafluoro-3H-4,8-dioxanonoate) *	919005-14-4	95% ethanol	< 30	-
10:2 FTS (Fluorotelomer sulfonate) *	120226-60-0	95% ethanol	< 100	-
PFPrS (Perfluoropropanesulfonic acid) *	423-41-6	95% ethanol	< 30	-
6:2 Cl-PFAES (9-chlorohexadecafluoro-3-oxanonane-1-sulfonate) *	756426-58-1	95% ethanol	< 30	-
8:2 Cl-PFAES (11-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid) *	763051-92-9	95% ethanol	< 30	-
PFUnDS (Perfluoroundecanesulfonic acid) *	749786-16-1	95% ethanol	< 30	-
6:2 diPAP (Fluorotelomer phosphate diester) *	57677-95-9	95% ethanol	< 30	-
PFMPA (Perfluoro-3-methoxypropionic acid) *	377-73-1	95% ethanol	< 30	-
PFMBA (Perfluoro-4-methoxybutanoic acid) *	863090-89-5	95% ethanol	< 30	-
NFDHA (PFDHA) (Nonafluoro-3,6-dioxaheptanoic acid) *	151772-58-6	95% ethanol	< 30	-

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LOQ: Limit of quantification

Parameters	CAS No.	Food Simulant	Result [ng/kg]	SML value [ng/kg]
acid) *				
PFEESA (Perfluoro-(2-ethoxyethane)-sulfonic acid) *	113507-82-7	95% ethanol	< 30	-
PFHxSA (Perfluorohexane sulfonamide) *	41997-13-1	95% ethanol	< 30	-
5:3 FTCA (Fluorotelomer carboxylic acid) *	914637-49-3	95% ethanol	< 30	-
7:3 FTCA (Fluorotelomer carboxylic acid) *	812-70-4	95% ethanol	< 30	-
12:2 FTOH (Fluorotelomer alcohol) *	39239-77-5	95% ethanol	< 100	-
PFECHS (Perfluoro-4-ethylcyclohexanesulfonate) *	646-83-3	95% ethanol	< 30	-
6:2/8:2 diPAP (Fluorotelomer phosphate diester) *	943913-15-3	95% ethanol	< 30	-
3:3 FTCA (Fluorotelomer carboxylic acid) *	356-02-5	95% ethanol	< 30	-
PFBSA (Perfluorobutane sulfonamide) *	30334-69-1	95% ethanol	< 30	-
diSAmPAP (Perfluorooctane sulfonamide phosphate diester) *	2965-52-8	95% ethanol	< 500	-
C6O4 (Perfluoro([5-methoxy1,3dioxolan4yl]oxy)acetic acid) *	1190931-41-9	95% ethanol	< 100	-
10:2 diPAP (Fluorotelomer phosphate diester) *	1895-26-7	95% ethanol	< 100	-
PFTrDS (Perfluorotridecanesulfonic acid) *	174675-49-1	95% ethanol	< 100	-
PFDSA (Perfluorodecanesulfonamide) *	4262-70-8	95% ethanol	< 30	-

Note: PFOS, PFHxS, PFOA, PFOSA and PFNA are reported as the sum of linear and branched forms.

Based on EFSA Journal 2020;18(9):6223 – Scientific opinion of EFSA

5 Summary and Evaluation of the Results

Migration of specific PFAS substances were **not detected** from the sample.

5.1 Decision Rules

Eurofins Product Testing Denmark A/S applies the principles described in ILAC's "Guidelines on decision Rules and Statements of Conformity" ILAC-G8:09/20190: That is, if legal, regulatory or an applicable standard specify a specific decision rule, conformity is evaluated accordingly. In all other cases, where no decision rule exists, conformity is based on simple acceptance without considering the measurement uncertainty. Results above the detection limit are always reported with two significant digits and decisions will be based on this.

For further information please visit www.eurofins.dk/product-testing/om-os/beslutningsregler/

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6 Picture of Sample



7 Version History

Report date	Report number	Modification
26/05/2025	392-2025-00151401_MP_EN	Current version

*: Not accredited

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>: Greater than

LOD: Limit of detection

Um(%): The expanded uncertainty $U_m(\%)$ equals $2 \times RSD\%$. For further information please visit www.eurofins.dk/uncertainty

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