

GymBeam s.r.o.

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### **Certificate of analysis 24034137 - 002**

Sample name : Sardines in brine - GymBeam 125g

Marking of sample : Batch-No: L-CN293E, Exp.: 19/04/26

Customer No. : none

Packaging : Commercial package/tin can

Sample amount : 4 x 125 g

Shipping of sample : Courier Service

Sample entry : 17.07.2024

Entrance temperature : Room temperature

Sample taken : by sender

Begin/end of analysis : 17.07.2024 / 02.08.2024

The results are only based on the items tested. GBA takes no responsibility for the validity of the sampling if the samples are neither taken by GBA nor on behalf of GBA. In such cases, the results refer to the sample as it is received. The GBA test report may not be published without the express written consent of the GBA Group, nor may excerpts of it be reproduced without permission. GBA decision rules can be seen in the general terms and conditions.

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## Test Results

<i>Microbiological Test</i>	<i>Result</i>	<i>Unit</i>
Salmonella	negative	/ 25 g
Coliforms	<10	cfu/g
Yeasts / moulds		
Moulds	<10	cfu/g

<i>Chemical/Physical Test</i>	<i>Result</i>	<i>Unit</i>
Lead	<0,020	mg/kg
Cadmium	0,073	mg/kg
Mercury	<0,010	mg/kg
Tin	<0,040	mg/kg
PAH		
Benzo(a)anthracene	<1,0	µg/kg
Chrysen	<1,0	µg/kg
Benzo(b)fluoranthene	<1,0	µg/kg
Benzo(a)pyrene	<1,0	µg/kg
Sum of PAH	not detectable	µg/kg
Dioxins		
2,3,7,8-TetraCDD	<0,024	pg/ g
1,2,3,7,8-PentaCDD	<0,048	pg/ g
1,2,3,4,7,8-HexaCDD	<0,036	pg/ g
1,2,3,6,7,8-HexaCDD	<0,036	pg/ g
1,2,3,7,8,9-HexaCDD	<0,084	pg/ g
1,2,3,4,6,7,8-HeptaCDD	<0,108	pg/ g
OctaCDD	<0,553	pg/ g
2,3,7,8-TetraCDF	<0,084	pg/ g
1,2,3,7,8-PentaCDF	<0,120	pg/ g
2,3,4,7,8-PentaCDF	<0,096	pg/ g
1,2,3,4,7,8-HexaCDF	<0,048	pg/ g
1,2,3,6,7,8-HexaCDF	<0,048	pg/ g
1,2,3,7,8,9-HexaCDF	<0,036	pg/ g
2,3,4,6,7,8-HexaCDF	<0,084	pg/ g
1,2,3,4,6,7,8-HeptaCDF	<0,084	pg/ g
1,2,3,4,7,8,9-HeptaCDF	<0,132	pg/ g
OctaCDF	<0,288	pg/ g
Sum dioxins (WHO PCDD/F-TEQ) incl. LOQ 100 % (upperbound)	0,153	pg/ g
Sum dioxins (WHO PCDD/F-TEQ) incl. LOQ 50 % (mediumbound)	0,077	pg/ g
Sum dioxins (WHO PCDD/F-TEQ) excl. LOQ (lowerbound)	0,0	pg/ g
PCB, dioxin like		

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<i>Chemical/Physical Test</i>	<i>Result</i>	<i>Unit</i>
PCB 77	<3,05	pg/ g
PCB 81	<0,280	pg/ g
PCB 126	<0,281	pg/ g
PCB 169	<0,265	pg/ g
PCB 105	11,5	pg/ g
PCB 114	<0,350	pg/ g
PCB 118	42,3	pg/ g
PCB 123	<1,33	pg/ g
PCB 156	<4,01	pg/ g
PCB 157	1,05	pg/ g
PCB 167	3,57	pg/ g
PCB 189	<0,687	pg/ g
Sum dl-PCB (WHO-PCB-TEQ) incl. LOQ 100 % (upperbound)	0,038	pg/ g
Sum dl-PCB (WHO-PCB-TEQ) incl. LOQ 50 % (mediumbound)	0,020	pg/ g
Sum dl-PCB (WHO-PCB-TEQ) excl. LOQ (lowerbound)	0,0018	pg/ g
Sum dioxins + dl-PCB (WHO-TEQ) incl. LOQ 100 % (upperbound)	0,192	pg/ g
PCB, non-dioxin like		
PCB 28	<0,500	ng/g
PCB 52	<0,500	ng/g
PCB 101	<0,500	ng/g
PCB 138	<0,500	ng/g
PCB 153	<0,500	ng/g
PCB 180	<0,500	ng/g
Sum PCB 28, 52, 101,138, 153, 180	3,00	ng/g

WHO-TEQ = Toxic equivalent of World Health Organisation (WHO), calculated with toxic equivalency factors of WHO (WHO-TEF)

WHO-TEF = Toxic equivalency factors of WHO 2005, Annex of Commission Regulation (EU) 2023/915

PCDD = Polychlorinated dibenzo-para-dioxins

PCDF = Polychlorinated dibenzofurans

PCDD/F = Sum of PCDD and PCDF

PCB = Polychlorinated biphenyls

dl-PCB = Dioxin-like PCB

Measurement uncertainty sum dioxins (WHO-PCDD/F-TEQ) incl. LOQ 100 %: +/- 0,054 pg/g

Measurement uncertainty sum dl-PCB (WHO-PCB-TEQ) incl. LOQ 100 %: +/- 0,013 pg/g

Measurement uncertainty sum of dioxins + dl-PCB (WHO -TEQ) incl. LOQ 100 %: +/- 0,067 pg/g

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Hamburg, 02.08.2024

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i. A. R. Rugo

(Certified Food Chemist / Customer Service)

*This test report is done automatically and is valid without signature.*

## Methods

<i>Parameter</i>	<i>Method</i>
Salmonella	§ 64 LFGB L 00.00-20: 2021-07 <sup>a</sup> <sub>0</sub>
Coliforms	ISO 4832: 2006-02 <sup>a</sup> <sub>0</sub>
Yeasts / moulds	BIOKAR Diagnostics, Symphony-Agar BM20208/BM19108: 2022-11 <sup>a</sup> ; validated according to EN ISO 16140-2 against EN ISO 21527-1/-2 2008-11 <sub>0</sub>
Lead	DIN EN 15763, ICP-MS: 2010-04 <sup>a</sup> <sub>5</sub>
Cadmium	DIN EN 15763, ICP-MS: 2010-04 <sup>a</sup> <sub>5</sub>
Mercury	DIN EN 15763, ICP-MS: 2010-04 <sup>a</sup> <sub>5</sub>
Tin	DIN EN 15765, ICP-MS: 2010-04 <sup>a</sup> <sub>5</sub>
PAH	HH-MA-M 02-105 # U, HPLC-FLD: 2023-06 <sup>a</sup> <sub>0</sub>
Sum of PAH	calculated $\alpha$
Dioxins	VO (EU) 2017/644, (GC-MS/MS) : 2017-04 <sub>58</sub>
PCB, dioxin like	VO (EU) 2017/644, (GC-MS/MS) : 2017-04 <sub>58</sub>
PCB, non-dioxin like	VO (EU) 2017/644, (GC-MS/MS) : 2017-04 <sub>58</sub>

With <sup>a</sup> marked methods are accredited.

Testing laboratory: <sub>0</sub>GBA Hamburg <sub>5</sub>GBA Pinneberg  $\alpha$  automatically calculated from the system <sub>58</sub>LQM