TEST REPORT

Applicant	:	
Address	:	
Sample description	:	stainless steel bottle
Product material	:	316/pp/silicone
Supplier	:	
Buyer name	:	Goed Gemerkt B.V.
Country of origin	:	
Country of destination	:	EU
Sample received date	:	10 - Aug - 2026
Sample resubmission date	:	04 - Sep - 2026
Turn around time	:	12 - Aug - 2026 to 08 - Sep - 2026

The following test item(s) was/were performed on submitted sample(s) and/or component(s) confirmed by applicant

TEST REQUESTED	TEST METHOD/REGULATION	RESULT
Overall Migration	LFGB Section 30, 31 and BfR recommendation, Regulation (EU) No. 10/2011 and its amendments	Pass
Overall Migration	Council of Europe Resolution AP (2004) 5	Pass
Sensorial Examination Odour and Taste Test	LFGB Section 30, 31 and BfR recommendation	Pass
Specific Migration of Heavy Metal	LFGB Section 30, 31 and BfR recommendation, Regulation (EU) No. 10/2011 and its amendments	Pass
Specific Migration of Primary Aromatic Amines	LFGB Section 30, 31 and BfR recommendation, Regulation (EU) No. 10/2011 and its amendments	Pass
Specific Migration of Bisphenol A and other bisphenols	LFGB Section 30, 31 and BfR recommendation, Regulation (EU) No 10/2011 and its amendments and Regulation (EU) 2024/3190	Pass
Specific Migration of Bisphenols derivatives	LFGB Section 30, 31 and BfR recommendation, Regulation (EU) No. 10/2011 and its amendments and Regulation (EU) 2024/3190	Pass
Specific Migration of Phthalates	LFGB Section 30, 31 and BfR recommendation, Regulation (EU) No. 10/2011 and its amendments	Pass
Peroxide Value	LFGB Section 30, 31 and BfR recommendation	Pass
Specific migration of Organotin (as tin)	French Décret 2007-766 with amendments and French Arrêté du 25 Novembre 1992	Pass
Volatile Organic Matter (VOM)	LFGB Section 30, 31 and BfR recommendation	Pass
Colorants Migration	LFGB, Section 30 and 31, and BfR recommendation	Pass
Specific Migration of Acrylonitrile	LFGB Section 30, 31 and BfR recommendation, Regulation (EU) No. 10/2011 and its amendments	Not Applicable
Specific Migration of 1,3-Butadiene	LFGB Section 30, 31 and BfR recommendation, Regulation (EU) No. 10/2011 and its amendments	Not Applicable
Specific Release of Heavy Metals	LFGB, Section 30 and 31, European Directorate for the Quality of Medicines & Healthcare (EDQM)-Technical Guide on Metals and alloys used in food contact materials and articles (2nd Edition, 2024)	Pass

Samples are obtained by express delivery, Results obtained refer only to samples, products or material received in Laboratory, as described in point related to sample description, and tested in conditions shown in present report. Eurofins Product Testing Service Co., Ltd ensures that this job has been performed according to our Quality System and complying contract and legal conditions. Unless otherwise stated from the customer, regulation or the standard specification, Eurofins will apply it in accordance with ILAC G8:09/2019-(binary statement for simple acceptance rule). If you happen to have any comments, please do it by sending email to and referring to this report number. Reproduction of this document is only valid if it is done completely and under the written permission of Eurofins Product Testing Service Co., Ltd. If you happen to have any complaints, please do it by sending email to and referring to this report number.

TEST REQUESTED	TEST METHOD/REGULATION	RESULT
Chromium, Vanadium, Zirconium and Hafnium Content	LFGB Section 30, 31 and BfR recommendation	Pass
Total Platinum Content	LFGB, Section 30 and 31, and BfR recommendation	Pass
Total Bisphenol A and other bisphenols Content	LFGB Section 30, 31 and BfR recommendation, Regulation (EU) No 10/2011 and Regulation (EU) 2024/3190	Pass
Total 1,3-Butadiene Content	LFGB Section 30, 31 and BfR recommendation, Regulation (EU) No. 10/2011 and its amendments	Not Applicable
Polycyclic Aromatic Hydrocarbons (PAHs)	REACH Annex XVII, Entry 50	Pass
Phthalates content	REACH Annex XVII, Entry 51 & 52	Pass
Total Cadmium Content	REACH Annex XVII, Entry 23	Pass
Total Lead Content	REACH Annex XVII, Entry 63	Pass

[redacted]

********** FOR FURTHER DETAILS, PLEASE REFER TO THE FOLLOWING PAGE(S) **********

Signed for and on behalf of
[redacted]

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SAMPLE PHOTO(S)



A B D C

EFHZ26082106-CG-01

COMPONENT LIST

Component No.	Component	Sample No.
1	Dark blue coating on metal	D
2	Beige coating on metal	B
3	Pink coating on metal	C
4	Light green coating on metal	A
5	Green transparent PP lid	A
6	Green PP lid	A
7	Dark blue transparent PP lid	D
8	Dark blue PP lid	D
9	Beige transparent PP lid	B
10	Beige PP lid	B
11	Pink transparent PP lid	C
12	Pink PP lid	C
13	Dark blue PP nozzle	D
14	Beige PP nozzle	B
15	Pink PP nozzle	C
16	Green PP nozzle	A
17	Translucence silicone（ring/nozzle）	A,B,C,D
18	Silver stainless steel 316（bottle inner/straw）	A,B,C,D

TO BE CONTINUED

TEST RESULT

Overall Migration

Test Request: In accordance with German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 30 and 31, and BfR recommendation, Commission Regulation (EU) No. 10/2011 and its amendments.

Test Method: With reference to EN1186-1:2002 for selection of conditions and test methods;

EN1186-3:2022 overall migration in evaporable simulants by total immersion method

Simulant Used	Time	Temperature	Unit	Limit	Result		
					5		
					1st	2nd	3rd
Ethanol 50%	2h	100° C	mg/dm²	10	ND	ND	ND
Acetic Acid 3%	2h	100° C	mg/dm²	10	ND	ND	ND

Simulant Used	Time	Temperature	Unit	Limit	Result		
					6		
					1st	2nd	3rd
Ethanol 50%	2h	100° C	mg/dm²	10	ND	ND	ND
Acetic Acid 3%	2h	100° C	mg/dm²	10	ND	ND	ND

Remark:

ND = not detected, less than 3.0 mg/dm²
mg/dm² = milligram per square decimeter
Test condition & simulant were specified by client.
S/V = 2.2 dm² / 220 ml(No.6)
S/V = 1.2dm² / 120ml(No.5)

TO BE CONTINUED

TEST RESULT

Overall Migration

Test Request: To determine the Overall Migration in accordance with Council of Europe Resolution AP (2004) 5.

Test Method: With reference to EN1186-1:2002 for selection of conditions and test methods;
EN1186-3:2022 overall migration in evaporable simulants by total immersion method

Simulant Used	Time	Temperature	Unit	Limit	Result		
					17		
					1st	2nd	3rd
Ethanol 50%	2h	100° C	mg/dm²	10	ND	ND	ND
Acetic Acid 3%	2h	100° C	mg/dm²	10	ND	ND	ND

Remark:

ND = not detected, less than 3.0 mg/dm²
mg/dm² = milligram per square decimeter
Test condition & simulant were specified by client.
S/V = 1dm² / 100ml(No.17)

TO BE CONTINUED

TEST RESULT

Sensorial Examination Odour and Taste Test

Test Request:	In accordance with German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 30 and 31 and BfR recommendation.
Test Method:	With reference to DIN 10955:2024 No. of panelist: 6
Odour Test Condition	1h at 100±5° C
Taste Test Substance	Distilled water
Taste Test Condition	2h at 100° C

Test Item(s)	Limit	Result			
		A	B	C	D
Sensorial examination odour (Point scale)	2.5	0.0	0.0	0.0	0.0
Sensorial examination taste (Point scale)	2.5	0.0	0.0	0.0	0.0

Remarks:
Scale evaluation:
0: No perceptible odour/taste
1: Odour/taste just perceptible (still difficult to define)
2: Moderate odour/taste
3: Moderately strong odour/taste
4: Strong odour/taste

TO BE CONTINUED

TEST RESULT

Specific Migration of Heavy Metal

Test Request: To determine the Specific Migration of Heavy Metal in accordance with German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 30 and 31, and BfR recommendation, Commission Regulation (EU) No. 10/2011 and its amendments.

Test Method: With reference to Regulation (EU) 10/2011 for selection of test condition and EN 13130-1:2004 for test preparation method; analysis was performed by ICP-MS.

Simulant Used: Acetic Acid 3%

Test Condition: 2h at 100° C

Test Item(s)	Unit	Limit	MDL	Result					
				5			6		
				1st	2nd	3rd	1st	2nd	3rd
Barium (Ba)	mg/kg	1	0.25	ND	ND	ND	ND	ND	ND
Cobalt (Co)	mg/kg	0.05	0.01	ND	ND	ND	ND	ND	ND
Copper (Cu)	mg/kg	5	0.25	ND	ND	ND	ND	ND	ND
Iron (Fe)	mg/kg	48	0.25	ND	ND	ND	ND	ND	ND
Lithium (Li)	mg/kg	0.6	0.5	ND	ND	ND	ND	ND	ND
Manganese (Mn)	mg/kg	0.6	0.05	ND	ND	ND	ND	ND	ND
Zinc (Zn)	mg/kg	5	0.5	ND	ND	ND	ND	ND	ND
Aluminium (Al)	mg/kg	1	0.1	ND	ND	ND	ND	ND	ND
Nickel (Ni)	mg/kg	0.02	0.01	ND	ND	ND	ND	ND	ND
Antimony (Sb)	mg/kg	0.04	0.01	ND	ND	ND	ND	ND	ND
Arsenic (As)	mg/kg	ND	0.01	ND	ND	ND	ND	ND	ND
Cadmium (Cd)	mg/kg	ND	0.002	ND	ND	ND	ND	ND	ND
Chromium (Cr)	mg/kg	ND	0.01	ND	ND	ND	ND	ND	ND
Europium (Eu)	mg/kg	-	0.01	ND	ND	ND	ND	ND	ND
Gadolinium (Gd)	mg/kg	-	0.01	ND	ND	ND	ND	ND	ND
Lanthanum (La)	mg/kg	-	0.01	ND	ND	ND	ND	ND	ND
Terbium (Tb)	mg/kg	-	0.01	ND	ND	ND	ND	ND	ND
Sum of lanthanide substances	mg/kg	0.05	-	ND	ND	ND	ND	ND	ND
Lead (Pb)	mg/kg	ND	0.01	ND	ND	ND	ND	ND	ND
Mercury (Hg)	mg/kg	ND	0.01	ND	ND	ND	ND	ND	ND

Remark:
mg/kg = milligram per kilogram
MDL = Method Detection Limit
ND = Not detected, less than MDL
Test condition & simulant were specified by client.
S/V = 6dm^2 / 1L (No.5, No.6)

TO BE CONTINUED

TEST RESULT

Specific Migration of Primary Aromatic Amines

Test Request: To determine the Specific Migration of Primary Aromatic Amines in accordance with German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 30 and 31, and BfR recommendation, Commission Regulation (EU) No. 10/2011 and its amendments.

Test Method: With reference to EN 13130-1:2004, analysis was performed by LC-MS/MS.

Simulant Used: Acetic Acid 3%

Test Condition: 2h at 100° C

Test Item(s)	CAS No.	Unit	Limit	MDL	Result					
					5			6		
					1st	2nd	3rd	1st	2nd	3rd
m-Phenylenediamine	108-45-2	mg/kg	Not Detectable	0.002	ND	ND	ND	ND	ND	ND
2,4,5-trimethylaniline	137-17-7	mg/kg	Not Detectable	0.002	ND	ND	ND	ND	ND	ND
2-methoxy-5-methylaniline	120-71-8	mg/kg	Not Detectable	0.002	ND	ND	ND	ND	ND	ND
2-Naphthylamine	91-59-8	mg/kg	Not Detectable	0.002	ND	ND	ND	ND	ND	ND
3,3´-dichlorobenzidine	91-94-1	mg/kg	Not Detectable	0.002	ND	ND	ND	ND	ND	ND
o-Dianisidine	119-90-4	mg/kg	Not Detectable	0.002	ND	ND	ND	ND	ND	ND
o-Tolidine	119-93-7	mg/kg	Not Detectable	0.002	ND	ND	ND	ND	ND	ND
4,4-Methylene-bis-2-chloroaniline	101-14-4	mg/kg	Not Detectable	0.002	ND	ND	ND	ND	ND	ND
4,4-methylenedianiline	101-77-9	mg/kg	Not Detectable	0.002	ND	ND	ND	ND	ND	ND
4,4-diamino-3,3-dimethyldiphenylmethane	838-88-0	mg/kg	Not Detectable	0.002	ND	ND	ND	ND	ND	ND
4,4-oxydianiline	101-80-4	mg/kg	Not Detectable	0.002	ND	ND	ND	ND	ND	ND
4,4-thiodianiline	139-65-1	mg/kg	Not Detectable	0.002	ND	ND	ND	ND	ND	ND
4-aminoazobenzene	60-09-3	mg/kg	Not Detectable	0.002	ND	ND	ND	ND	ND	ND
4-aminobiphenyl	92-67-1	mg/kg	Not Detectable	0.002	ND	ND	ND	ND	ND	ND
4-Chloroaniline	106-47-8	mg/kg	Not Detectable	0.002	ND	ND	ND	ND	ND	ND
4-chloro-2-methylaniline	95-69-2	mg/kg	Not Detectable	0.002	ND	ND	ND	ND	ND	ND

TO BE CONTINUED

TEST RESULT

2,4-diaminoanisole	615-05-4	mg/kg	Not Detectable	0.002	ND	ND	ND	ND	ND	ND
2,4-diaminotoluene	95-80-7	mg/kg	Not Detectable	0.002	ND	ND	ND	ND	ND	ND
2-methyl-5-nitroaniline	99-55-8	mg/kg	Not Detectable	0.002	ND	ND	ND	ND	ND	ND
Benzidine	92-87-5	mg/kg	Not Detectable	0.002	ND	ND	ND	ND	ND	ND
o-Aminoazotoluene	97-56-3	mg/kg	Not Detectable	0.002	ND	ND	ND	ND	ND	ND
o-anisidine	90-04-0	mg/kg	Not Detectable	0.002	ND	ND	ND	ND	ND	ND
o-toluidine	95-53-4	mg/kg	Not Detectable	0.002	ND	ND	ND	ND	ND	ND
p-Phenylenediamine	106-50-3	mg/kg	-	0.002	ND	ND	ND	ND	ND	ND
2,4-Dimethylaniline	95-68-1	mg/kg	-	0.002	ND	ND	ND	ND	ND	ND
2,6-Dimethylaniline	87-62-7	mg/kg	-	0.002	ND	ND	ND	ND	ND	ND
Aniline	62-53-3	mg/kg	-	0.002	ND	ND	ND	ND	ND	ND
2,2'-methylenedianiline	6582-52-1	mg/kg	-	0.002	ND	ND	ND	ND	ND	ND
2,4'-methylenedianiline	1208-52-2	mg/kg	-	0.002	ND	ND	ND	ND	ND	ND
Total of other primary aromatic amines	-	mg/kg	0.01	-	ND	ND	ND	ND	ND	ND

Remark:
Total of other primary aromatic amines are p-Phenylenediamine (CAS No.:106-50-3), 2,4-dimethylaniline(CAS No.:95-68-1), 2,6-dimethylaniline(CAS No.:87-62-7), aniline (CAS No.:62-53-3), 2,2'-methylenedianiline(CAS No.:6582-52-1), 2,4'-methylenedianiline(CAS No.:1208-52-2).
mg/kg = milligram per kilogram
ND = not detected, less than MDL
MDL = method detection limit
Test condition & simulant were specified by client.
S/V = 6dm^2 / 1L (No.5, No.6)

TO BE CONTINUED

TEST RESULT

Specific Migration of Bisphenol A and other bisphenols

Test Request: To determine Specific Migration of Bisphenol A and other bisphenols in accordance with German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 30 and 31, and BfR recommendation, Commission Regulation (EU) No 10/2011 and its amendments and Regulation (EU) 2024/3190.

Test Method: With reference to EN 13130-1:2004, analysis was performed by LC-MS/MS.

Simulant Used: Acetic Acid 3%

Test Condition: 2h at 100° C

Test Item(s)	CAS No.	Unit	Limit	MDL	Result					
					5			6		
					1st	2nd	3rd	1st	2nd	3rd
Bisphenol A (BPA)	80-05-7	µg/kg	Not Detected	1	ND	ND	ND	ND	ND	ND
Tetrabromobisphenol-A (TBBPA)	79-94-7	µg/kg	Not Detected	1	ND	ND	ND	ND	ND	ND
Bisphenol AF (BPAF)	1478-61-1	µg/kg	Not Detected	1	ND	ND	ND	ND	ND	ND
Phenolphthalein	77-09-8	µg/kg	Not Detected	1	ND	ND	ND	ND	ND	ND
4,4-Isobutylethylidenediphenol	6807-17-6	µg/kg	Not Detected	1	ND	ND	ND	ND	ND	ND
Bisphenol S (BPS)	80-09-1	µg/kg	Not Detected	1	ND	ND	ND	ND	ND	ND

Test Item(s)	CAS No.	Unit	Limit	MDL	Result		
					17		
					1st	2nd	3rd
Bisphenol A (BPA)	80-05-7	µg/kg	Not Detected	1	ND	ND	ND
Tetrabromobisphenol-A (TBBPA)	79-94-7	µg/kg	Not Detected	1	ND	ND	ND
Bisphenol AF (BPAF)	1478-61-1	µg/kg	Not Detected	1	ND	ND	ND
Phenolphthalein	77-09-8	µg/kg	Not Detected	1	ND	ND	ND
4,4-Isobutylethylidenediphenol	6807-17-6	µg/kg	Not Detected	1	ND	ND	ND
Bisphenol S (BPS)	80-09-1	µg/kg	Not Detected	1	ND	ND	ND

TO BE CONTINUED

TEST RESULT

Remark:
μg/kg = microgram per kilogram
ND = not detected, less than MDL
MDL = method detection limit
Test condition & simulant were specified by client
S/V = 6dm² / 1L (No.5, No.6, No.17)

TO BE CONTINUED

TEST RESULT

Specific Migration of Bisphenols derivatives

Test Request: To determine Specific Migration of Bisphenols derivatives in accordance with German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 30 and 31, and BfR recommendation, Commission Regulation (EU) No. 10/2011 and its amendments and Regulation (EU) 2024/3190.

Test Method: With reference to EN 13130-1:2004, analysis was performed by LC-MS/MS.

Simulant Used: Acetic Acid 3%

Test Condition: 2h at 100° C

Test Item(s)	Unit	Limit	MDL	Result					
				5			6		
				1st	2nd	3rd	1st	2nd	3rd
BADGE	µg/kg	Not Detected	1	ND	ND	ND	ND	ND	ND
BADGE.H2O	µg/kg	Not Detected	1	ND	ND	ND	ND	ND	ND
BADGE.2H2O	µg/kg	Not Detected	1	ND	ND	ND	ND	ND	ND
BADGE.HCl	µg/kg	Not Detected	1	ND	ND	ND	ND	ND	ND
BADGE.2HCl	µg/kg	Not Detected	1	ND	ND	ND	ND	ND	ND
BADGE.H2O.HCl	µg/kg	Not Detected	1	ND	ND	ND	ND	ND	ND
BFDGE	µg/kg	Not Detected	1	ND	ND	ND	ND	ND	ND
NOGE	µg/kg	Not Detected	1	ND	ND	ND	ND	ND	ND

TO BE CONTINUED

TEST RESULT

Test Item(s)	Unit	Limit	MDL	Result		
				17		
				1st	2nd	3rd
BADGE	µg/kg	Not Detected	1	ND	ND	ND
BADGE.H2O	µg/kg	Not Detected	1	ND	ND	ND
BADGE.2H2O	µg/kg	Not Detected	1	ND	ND	ND
BADGE.HCl	µg/kg	Not Detected	1	ND	ND	ND
BADGE.2HCl	µg/kg	Not Detected	1	ND	ND	ND
BADGE.H2O.HCl	µg/kg	Not Detected	1	ND	ND	ND
BFDGE	µg/kg	Not Detected	1	ND	ND	ND
NOGE	µg/kg	Not Detected	1	ND	ND	ND

Remark:
µg/kg = microgram per kilogram
ND = not detected, less than MDL
MDL = method detection limit
Test condition & simulant were specified by client
S/V = 6dm² / 1L (No.5, No.6, No.17)

TO BE CONTINUED

TEST RESULT

Specific Migration of Phthalates

Test Request: To determine the Specific Migration of Phthalates in accordance with German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 30 and 31, and BfR recommendation, Commission Regulation (EU) No. 10/2011 and its amendments.

Test Method: With reference to EN 13130-1:2004, analysis was performed by GC-MS.

Simulant Used: Ethanol 95%

Test Condition: 3.5h at 60° C

Test Item(s)	CAS No.	Unit	Limit	MDL	Result					
					5			6		
					1st	2nd	3rd	1st	2nd	3rd
Diethylhexylphthalate (DEHP)	117-81-7	mg/kg	0.6	0.05	ND	ND	ND	ND	ND	ND
Dibutylphthalate (DBP)	84-74-2	mg/kg	0.12	0.05	ND	ND	ND	ND	ND	ND
Benzylbutylphthalate (BBP)	85-68-7	mg/kg	6.0	0.05	ND	ND	ND	ND	ND	ND
Di-isobutyl phthalate (DiBP)	84-69-5	mg/kg	-	0.05	ND	ND	ND	ND	ND	ND
Sum of DBP, DIBP, BBP and DEHP	-	mg/kg	0.6	-	ND	ND	ND	ND	ND	ND
Diisononylphthalate (DINP)	28553-12-0	mg/kg	-	0.50	ND	ND	ND	ND	ND	ND
Diisodecyl phthalate (DIDP)	26761-40-0	mg/kg	-	0.50	ND	ND	ND	ND	ND	ND
Sum of DINP, DIDP	-	mg/kg	1.8	-	ND	ND	ND	ND	ND	ND
Diallyl phthalate (DAP)	131-17-9	mg/kg	Not Detected	0.01	ND	ND	ND	ND	ND	ND

TO BE CONTINUED

TEST RESULT

Simulant Used: Isooctane

Test Condition: 1.5h at 60° C

Test Item(s)	CAS No.	Unit	Limit	MDL	Result					
					5			6		
					1st	2nd	3rd	1st	2nd	3rd
Diethylhexylphthalate (DEHP)	117-81-7	mg/kg	0.6	0.05	ND	ND	ND	ND	ND	ND
Dibutylphthalate (DBP)	84-74-2	mg/kg	0.12	0.05	ND	ND	ND	ND	ND	ND
Benzylbutylphthalate (BBP)	85-68-7	mg/kg	6.0	0.05	ND	ND	ND	ND	ND	ND
Di-isobutyl phthalate (DiBP)	84-69-5	mg/kg	-	0.05	ND	ND	ND	ND	ND	ND
Sum of DBP, DIBP, BBP and DEHP	-	mg/kg	0.6	-	ND	ND	ND	ND	ND	ND
Diisononylphthalate (DINP)	28553-12-0	mg/kg	-	0.50	ND	ND	ND	ND	ND	ND
Diisodecyl phthalate (DIDP)	26761-40-0	mg/kg	-	0.50	ND	ND	ND	ND	ND	ND
Sum of DINP, DIDP	-	mg/kg	1.8	-	ND	ND	ND	ND	ND	ND
Diallyl phthalate (DAP)	131-17-9	mg/kg	Not Detected	0.01	ND	ND	ND	ND	ND	ND

Remark:
Sum of DBP, DIBP, BBP and DEHP = DBP×5+DIBP×4+BBP×0.1+DEHP×1
mg/kg = milligram per kilogram
ND = not detected, less than MDL
MDL = method detection limit
Test condition & simulant were specified by client.
S/V = 6dm² / 1L (No.5, No.6)

TO BE CONTINUED

TEST RESULT

Peroxide Value

Test Request: In accordance with German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 30 and 31, and BfR recommendation.
Test Method: With reference to European pharmacopoeia 9.0 part 2.5.5. Peroxide Value method A.

Test Item(s)	Unit	Limit	Result		
			5	6	17
Peroxide Value	NO UNIT	Absent	Absent	Absent	Absent

Specific migration of Organotin (as tin)

Test Request: In accordance with French Décret 2007-766 and its amendments, and French Arrêté du 25 November 1992 for silicone materials.
Test Method: With reference to EN 13130-1:2004, analysis was performed by ICP-MS.
Simulant Used: Acetic Acid 3%
Test Condition: 2h at 100° C

Test Item(s)	Unit	Limit	MDL	Result		
				17		
				1st	2nd	3rd
Organotin (as Tin)	mg/kg	0.1	0.01	ND	ND	ND

Remark:
mg/kg = milligram per kilogram
MDL = method detection limit
ND = not detected (<MDL)
S/V = 6dm² / 1L (No.17)

TO BE CONTINUED

TEST RESULT

Volatile Organic Matter (VOM)

Test Request: In accordance with German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 30 and 31, and BfR recommendation.

Test Method: With reference to Bestimmung von flüchtigen Verbindungen in Bedarfsgegenständen aus Silikon.

Test Item(s)	Unit	Limit	MDL	Result
				17
Volatile Organic Matter (VOM)	%	0.5	0.10	0.21

Remark:
Test Condition: 100° C 1h for conditioning, then 200° C, 4 hours for testing
% = percentage of weight by weight, w/w
MDL = method detection limit
ND = not detected, less than MDL

TO BE CONTINUED

TEST RESULT

Colorants Migration

Test Request: In accordance with German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 30 and 31, and BfR recommendation.

Test Method: With reference to 24th Communication on the testing of plastics, Bundesgesundheitsblatt 15 (1972) 285.

Simulant Used	Time	Temperature	Unit	Limit	Result
					5
Distilled water	5h	50° C	NO UNIT	No visible color migration to foodstuffs	Not visible
2% Acetic acid	5h	50° C	NO UNIT	No visible color migration to foodstuffs	Not visible
10% Ethanol	5h	50° C	NO UNIT	No visible color migration to foodstuffs	Not visible
Coconut oil	5h	50° C	NO UNIT	No visible color migration to foodstuffs	Not visible

Simulant Used	Time	Temperature	Unit	Limit	Result
					6
Distilled water	5h	50° C	NO UNIT	No visible color migration to foodstuffs	Not visible
2% Acetic acid	5h	50° C	NO UNIT	No visible color migration to foodstuffs	Not visible
10% Ethanol	5h	50° C	NO UNIT	No visible color migration to foodstuffs	Not visible
Coconut oil	5h	50° C	NO UNIT	No visible color migration to foodstuffs	Not visible

TO BE CONTINUED

TEST RESULT

Simulant Used	Time	Temperature	Unit	Limit	Result
					17
Distilled water	5h	50° C	NO UNIT	No visible color migration to foodstuffs	Not visible
2% Acetic acid	5h	50° C	NO UNIT	No visible color migration to foodstuffs	Not visible
10% Ethanol	5h	50° C	NO UNIT	No visible color migration to foodstuffs	Not visible
Coconut oil	5h	50° C	NO UNIT	No visible color migration to foodstuffs	Not visible

Remark:

Test is not applicable to transparent material or white material

TO BE CONTINUED

TEST RESULT

Specific Release of Heavy Metals

Test Request: To determine specific release of heavy metals in accordance with German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 30 and 31, European Directorate for the Quality of Medicines & Healthcare (EDQM)- Technical Guide on Metals and alloys used in food contact materials and articles (2nd Edition,2024).

Test Method: With reference to European Directorate for the Quality of Medicines & Healthcare (EDQM)-Technical Guide on Metals and alloys used in food contact materials and articles (2nd Edition, 2024) for sample preparation and JRC Guidelines on testing conditions for kitchenware articles in contact with foodstuffs for test condition selection, analysis was performed by ICP-MS.

Simulant Used: 0.5% Citric acid

Test Condition: 2h at 100° C

Test Item(s)	Unit	MDL	Result			
			18			
			1st + 2nd Migration		3rd Migration	
			Result	7xSRL*2	Result	SRL*1
Aluminum (Al)	mg/kg	0.5	ND	35	ND	5
Antimony (Sb)	mg/kg	0.01	ND	0.28	ND	0.04
Chromium (Cr)	mg/kg	0.05	ND	7	ND	1
Cobalt (Co)	mg/kg	0.005	ND	0.14	ND	0.02
Copper (Cu)	mg/kg	0.5	ND	28	ND	4
Iron (Fe)	mg/kg	5	ND	280	ND	40
Manganese (Mn)	mg/kg	0.01	ND	0.49/3.85*4	ND	0.07/0.55*4
Molybdenum (Mo)	mg/kg	0.01	ND	0.84	ND	0.12
Nickel (Ni)	mg/kg	0.01	ND	0.98	ND	0.14
Silver (Ag)	mg/kg	0.01	ND	0.56	ND	0.08
Tin (Sn) *3	mg/kg	5	ND	700	ND	100
Vanadium (V)	mg/kg	0.001	ND	0.07	ND	0.01
Zinc (Zn)	mg/kg	0.5	ND	35	ND	5
Zirconium (Zr)	mg/kg	0.1	ND	14	ND	2
Arsenic (As)	mg/kg	0.0005	ND	0.014	ND	0.002
Barium (Ba)	mg/kg	0.1	ND	8.4	ND	1.2
Beryllium (Be)	mg/kg	0.001	ND	0.07	ND	0.01
Cadmium (Cd)	mg/kg	0.001	ND	0.035	ND	0.005
Lead (Pb)	mg/kg	0.001	ND	0.07	ND	0.01
Lithium (Li)	mg/kg	0.005	ND	0.336	ND	0.048
Mercury (Hg)	mg/kg	0.0005	ND	0.021	ND	0.003
Thallium (Tl)	mg/kg	0.0002	ND	0.007	ND	0.001
Magnesium (Mg)	mg/kg	0.1	ND	-	ND	-
Titanium (Ti)	mg/kg	0.1	ND	-	ND	-

Remark:
mg/kg =milligram per kilogram
MDL = method detection limit
ND = not detected (<MDL)

TO BE CONTINUED

TEST RESULT

SRL = Specific Release Limit
*1 Compliance is established on the result from the third migration test for repeated used articles.
*2 Meantime, the sum of the results of the first and second tests should not exceed 7 times the SRL
*3 Except in field of application under Commission Regulation (EU) 2023/915
*4 SRL:0.07 mg/kg and 7xSRL:0.49 mg/kg particularly for materials and articles intended for contact with milk, milk products and other non-alcoholic drinks as well as any food especially intended for infants and toddlers; SRL:0.55 mg/kg and 7xSRL:3.85 mg/kg for the others.
Test condition & simulant were specified by client.
S/V = 3.86dm^2 / 0.58L(No.18)

TO BE CONTINUED

TEST RESULT

Chromium, Vanadium, Zirconium and Hafnium Content

Test Request: In accordance with German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 30 and 31, and BfR recommendation.

Test Method: Acid digestion, followed by analysis using ICP-OES

Test Item(s)	Unit	Limit	MDL	Result	
				5	6
Total Chromium (Cr)	mg/kg	10	5	ND	ND
Total Vanadium (V)	mg/kg	20	20	ND	ND
Total Zirconium (Zr)	mg/kg	100	20	ND	ND
Total Hafnium (Hf)	mg/kg	100	20	ND	ND

Remark:
mg/kg = milligram per kilogram
MDL = method detection limit
ND = not detected (<MDL)

Total Platinum Content

Test Request: In accordance with German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 30 and 31, and BfR recommendation.

Test Method: Acid digestion/ Microwave digestion method was used and total Platinum content was determined by ICP-OES.

Test Item(s)	Unit	Limit	MDL	Result
				17
Platinum (Pt)	mg/kg	50	10	ND

Remark:
mg/kg = milligram per kilogram
MDL = method detection limit
ND = Not detected, less than MDL

TO BE CONTINUED

TEST RESULT

Total Bisphenol A and other bisphenols Content

Test Request: To determine Total Bisphenol A and other bisphenols Content in accordance with German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 30 and 31, and BfR recommendation, Commission Regulation (EU) No 10/2011 and Regulation (EU) 2024/3190.

Test Method: With reference to EPA 3550C:2007, solvent extraction, analysis was performed by LC-MS/MS.

Test Item(s)	CAS No.	Unit	Limit	MDL	Result	
					5	6
Bisphenol A (BPA)	80-05-7	µg/kg	Not Detected	1.0	ND	ND
Bisphenol AF (BPAF)	1478-61-1	µg/kg	Not Detected	1.0	ND	ND
Bisphenol S (BPS)	80-09-1	µg/kg	Not Detected	1.0	ND	ND
4,4-Isobutylethylidenediphenol	6807-17-6	µg/kg	Not Detected	1.0	ND	ND
Tetrabromobisphenol-A (TBBPA)	79-94-7	µg/kg	Not Detected	1.0	ND	ND
Phenolphthalein	77-09-8	µg/kg	Not Detected	1.0	ND	ND

TO BE CONTINUED

TEST RESULT

Test Item(s)	CAS No.	Unit	Limit	MDL	Result
					17
Bisphenol A (BPA)	80-05-7	µg/kg	Not Detected	1.0	ND
Bisphenol AF (BPAF)	1478-61-1	µg/kg	Not Detected	1.0	ND
Bisphenol S (BPS)	80-09-1	µg/kg	Not Detected	1.0	ND
4,4-Isobutylethylidenediphenol	6807-17-6	µg/kg	Not Detected	1.0	ND
Tetrabromobisphenol-A (TBBPA)	79-94-7	µg/kg	Not Detected	1.0	ND
Phenolphthalein	77-09-8	µg/kg	Not Detected	1.0	ND

Remarks:
µg/kg = micrograms per kilogram
ND = not detected, less than MDL
MDL = method detection limit

TO BE CONTINUED

TEST RESULT

Polycyclic Aromatic Hydrocarbons (PAHs)

Test Request: Polycyclic Aromatic Hydrocarbons (PAHs) content as specified in Regulation (EU) 2015/326 amending entry 50 of Annex XVII of REACH Regulation (EC) No 1907/2006.

Test Method: Solvent extraction and quantification by gas chromatography-mass selective detection (GC-MS) with respect to AfPS GS 2019:01 PAK

Test Item(s)	CAS No.	Unit	Limit	MDL	Result			
					1+2	3+4	5+6	7+8
Benz(a)anthracene	56-55-3	mg/kg	1	0.2	ND	ND	ND	ND
Chrysene	218-01-9	mg/kg	1	0.2	ND	ND	ND	ND
Benzo(b)fluoranthene	205-99-2	mg/kg	1	0.2	ND	ND	ND	ND
Benzo(j)fluoranthene	205-82-3	mg/kg	1	0.2	ND	ND	ND	ND
Benzo(k)fluoranthene	207-08-9	mg/kg	1	0.2	ND	ND	ND	ND
Benzo(a)pyrene	50-32-8	mg/kg	1	0.2	ND	ND	ND	ND
Dibenz(a,h)anthracene	53-70-3	mg/kg	1	0.2	ND	ND	ND	ND
Benzo(e)pyrene	192-97-2	mg/kg	1	0.2	ND	ND	ND	ND

Test Item(s)	CAS No.	Unit	Limit	MDL	Result			
					9+10	11+12	13+14	15+16
Benz(a)anthracene	56-55-3	mg/kg	1	0.2	ND	ND	ND	ND
Chrysene	218-01-9	mg/kg	1	0.2	ND	ND	ND	ND
Benzo(b)fluoranthene	205-99-2	mg/kg	1	0.2	ND	ND	ND	ND
Benzo(j)fluoranthene	205-82-3	mg/kg	1	0.2	ND	ND	ND	ND
Benzo(k)fluoranthene	207-08-9	mg/kg	1	0.2	ND	ND	ND	ND
Benzo(a)pyrene	50-32-8	mg/kg	1	0.2	ND	ND	ND	ND
Dibenz(a,h)anthracene	53-70-3	mg/kg	1	0.2	ND	ND	ND	ND
Benzo(e)pyrene	192-97-2	mg/kg	1	0.2	ND	ND	ND	ND

Test Item(s)	CAS No.	Unit	Limit	MDL	Result
					17
Benz(a)anthracene	56-55-3	mg/kg	1	0.2	ND
Chrysene	218-01-9	mg/kg	1	0.2	ND
Benzo(b)fluoranthene	205-99-2	mg/kg	1	0.2	ND
Benzo(j)fluoranthene	205-82-3	mg/kg	1	0.2	ND
Benzo(k)fluoranthene	207-08-9	mg/kg	1	0.2	ND
Benzo(a)pyrene	50-32-8	mg/kg	1	0.2	ND
Dibenz(a,h)anthracene	53-70-3	mg/kg	1	0.2	ND
Benzo(e)pyrene	192-97-2	mg/kg	1	0.2	ND

Remarks:

According to client's request, tests are combination tests. The experimental results are the total result of mixed samples.
mg/kg = milligram per kilogram
MDL = method detection limit
ND = Not detected, less than MDL

TO BE CONTINUED

TEST RESULT

Phthalates content

Test Request: Phthalates content as specified in entry 51&52 of annex XVII of REACH Regulation (EC) No 1907/2006 and its amendment Commission Regulation (EU) 2018/2005.

Test Method: IEC 62321-8:2017, solvent extraction and quantification by GC-MS.

Test Item(s)	CAS No.	Unit	Limit	MDL	Result			
					1+2+3	4	5+6+7	8+9+10
Dibutylphthalate (DBP)	84-74-2	%	-	0.005	ND	ND	ND	ND
Benzylbutyl phthalate (BBP)	85-68-7	%	-	0.005	ND	ND	ND	ND
Diethylhexylphthalate (DEHP)	117-81-7	%	-	0.005	ND	ND	ND	ND
Di-isobutyl phthalate (DiBP)	84-69-5	%	-	0.005	ND	ND	ND	ND
Sum (DBP + BBP + DEHP + DIBP)	-	%	0.1	-	ND	ND	ND	ND
Di-n-octylphthalate (DNOP)	117-84-0	%	-	0.005	ND	ND	ND	ND
Diisononylphthalate (DINP)	28553-12-0	%	-	0.005	ND	ND	ND	ND
Diisodecyl phthalate (DIDP)	26761-40-0	%	-	0.005	ND	ND	ND	ND
Sum (DNOP + DINP + DIDP)	-	%	0.1	-	ND	ND	ND	ND

Test Item(s)	CAS No.	Unit	Limit	MDL	Result		
					11+12+13	14+15+16	17
Dibutylphthalate (DBP)	84-74-2	%	-	0.005	ND	ND	ND
Benzylbutyl phthalate (BBP)	85-68-7	%	-	0.005	ND	ND	ND
Diethylhexylphthalate (DEHP)	117-81-7	%	-	0.005	ND	ND	ND
Di-isobutyl phthalate (DiBP)	84-69-5	%	-	0.005	ND	ND	ND
Sum (DBP + BBP + DEHP + DIBP)	-	%	0.1	-	ND	ND	ND
Di-n-octylphthalate (DNOP)	117-84-0	%	-	0.005	ND	ND	ND
Diisononylphthalate (DINP)	28553-12-0	%	-	0.005	ND	ND	ND
Diisodecyl phthalate (DIDP)	26761-40-0	%	-	0.005	ND	ND	ND
Sum (DNOP + DINP + DIDP)	-	%	0.1	-	ND	ND	ND

Remarks:

According to client's request, tests are combination tests. The experimental results are the total result of mixed samples.

1 mg/kg = 1 ppm = 0.0001%

MDL = method detection limit

ND = Not detected, less than MDL

"- " = Not Regulated

TO BE CONTINUED

TEST RESULT

Total Cadmium Content

Test Request: Total cadmium content as specified in Commission Regulation (EU) 2016/217 amending entry 23 of Annex XVII of REACH Regulation (EC) No 1907/2006.

Test Method: IEC 62321-5:2013
Acid digestion method was used and total cadmium content was determined by ICP-OES

Test Item(s)	Unit	Limit	MDL	Result	
				1+2+3	4
Cadmium (Cd)	mg/kg	1000	10	ND	ND

Test Item(s)	Unit	Limit	MDL	Result	
				5+6+7	8+9+10
Cadmium (Cd)	mg/kg	100	10	ND	ND

Test Item(s)	Unit	Limit	MDL	Result		
				11+12+13	14+15+16	17
Cadmium (Cd)	mg/kg	100	10	ND	ND	ND

Remark:
According to client's request, tests are combination tests. The experimental results are the total result of mixed samples.
mg/kg = milligram per kilogram
MDL = method detection limit
ND = Not detected, less than MDL

Total Lead Content

Test Request: Total lead content as specified in entry 63 of annex XVII of REACH Regulation (EC) No 1907/2006 and its amendment Regulation (EU) No 2015/628.

Test Method: IEC 62321-5:2013
Acid digestion method was used and total lead content was determined by ICP-OES

Test Item(s)	Unit	Limit	MDL	Result			
				1+2+3	4	5+6+7	8+9+10
Lead (Pb)	mg/kg	500	10	ND	ND	ND	ND

Test Item(s)	Unit	Limit	MDL	Result		
				11+12+13	14+15+16	17
Lead (Pb)	mg/kg	500	10	ND	ND	ND

Remark:
According to client's request, tests are combination tests. The experimental results are the total result of mixed samples.
mg/kg = milligram per kilogram
MDL = method detection limit
ND = Not detected, less than MDL

END OF THE REPORT