

Test Report No.: 68.431.25.1648.01B

Dated: 2025-04-24



Applicant : Bibo Brands
Torenplein 7.16.1 3500 Hasselt, Belgium

Sample Description : Kambukka Etna

Style No. / Name / Design No. : 12-01030 / 12-01031

PO No. / Order No. : IO24-0069

Country of Origin : China

Test Sample Receipt Date, Location : 2025-03-27, 2025-04-01, 2025-04-15, Shenzhen

Test Period, Location : From 2025-03-27 to 2025-04-15, Shenzhen

Test Result(s) : Refer to Section 3



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Lab 2 - Physical & mechanical
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Purpose Of Examination / Conclusion:

No.	Test Item(s)	Conclusion
	As specified by client, to test per the selected requirement(s) for the tested item(s) as stated in the Regulation (EC) No.1935/2004	
1	Overall Migration	Pass
2	Specific Migration of PAA	Pass
3	Specific Migration of PAAs	Pass
4	Specific Migration of Heavy Metals	Pass
5	Specific Migration of Formaldehyde	Pass
6	Specific Migration of Hexamethylenediamine (HMDA)	Pass
7	Extractable 24 Heavy Metals Test as specified in EDQM Technical Guide for metals and alloys used in food contact materials and articles (2 nd Edition 2024)	Pass
8	Sensory test Test for compliance with Regulation (EC) No. 1935/2004 Article 3(1)	Pass
9	Regulation (EC) No.1907/2006 (REACH) Annex XVII, Item 51 - Phthalates Content	Pass
10	Regulation (EC) No.1907/2006 (REACH) Annex XVII, Item 50 - Polycyclic Aromatic Hydrocarbons (PAHs)	Pass
11	US California Proposition 65 (Santa Clara Superior Court 115CV283507) - Phthalates Content	Pass
12	Canada Consumer Products Containing Lead Regulations (SOR/2018-83) -Total Lead Content	Pass
13	Screening of 247 Substances of Very High Concern (SVHC) published by European Chemicals Agency (ECHA) based on Regulation (EC) No.1907/2006 (REACH)	<0.1%(W/W)
14	Regulation (EC) No.1907/2006 (REACH) Annex XVII, Item 63 - Total Lead Content	Pass
15	Regulation (EC) No.1907/2006 (REACH) Annex XVII, Item 23 - Cadmium Content	Pass
16	US California Proposition 65 (Settlement Agreement Ref. 2016-00578) - Lead Content	Pass
17	US California Proposition 65 (Settlement Agreement Ref. 2016-01270) - Total Bisphenol A Content	Pass

Remarks:

- (1) The results relate only to the items tested.
- (2) Samples are tested as received.
- (3) The test item and samples were specified by the client
- (4) "Pass" means the measured result is within a limit, even when extended by expanded uncertainty. "Fail" means

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the measured result is beyond a limit, even when extended by expanded uncertainty. "Inconclusive" means the measured result can be within or beyond a limit when extended by expanded uncertainty. The confidence level of the expended uncertainty for "Pass", "Fail" and "Inconclusive" is 95%.

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TÜV SÜD Group

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Reviewed by:



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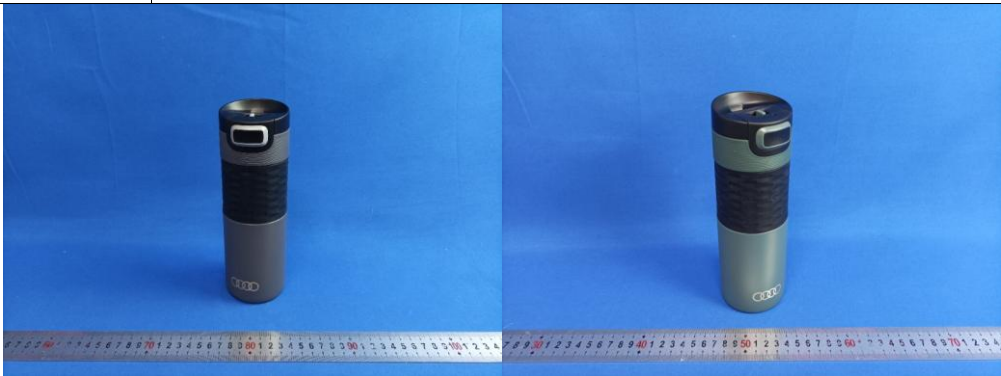
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1. Description of the Test Sample:

Sample Description	Kambukka Etna
	

2. List of Materials as identified by the Laboratory:

T. No.	Sample No.	Colour and Description	Photograph
T1.	001	Whole product (Bottle)	
T2.	002	Black HTPP-CO plastic (Lid & lid base)	

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T. No.	Sample No.	Colour and Description	Photograph
T3.	003	Black plastic (Snapclean lever)	
T4.	004	Black silicone (Sealing ring)	
T5.	005	Grey silicone (Spout seal)	

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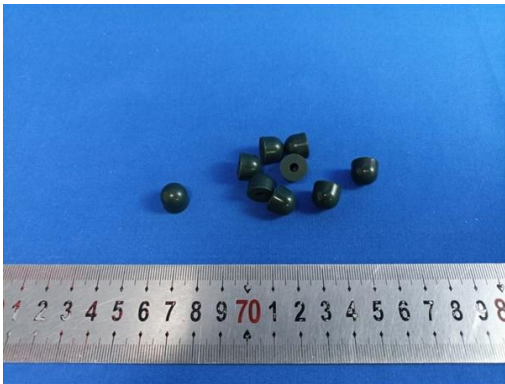
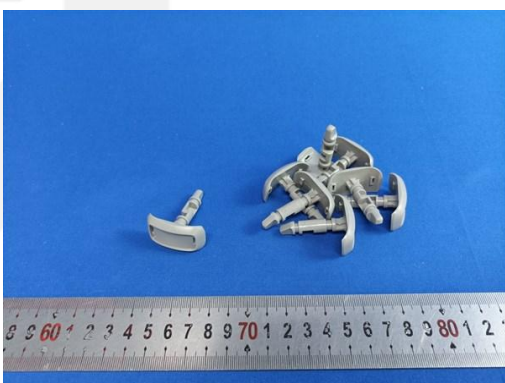
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T. No.	Sample No.	Colour and Description	Photograph
T6.	006	Dark green silicone (Spout seal)	
T7.	007	Black POM plastic (Snapclean holder)	
T8.	008	Grey POM plastic (Button)	

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T. No.	Sample No.	Colour and Description	Photograph
T9.	009	Grey green POM plastic (Button)	
T10.	010	Silvery 304 stainless steel metal (Interior of bottle)	
T11.	011	Silvery metal (Big spring) (Spring 1)	

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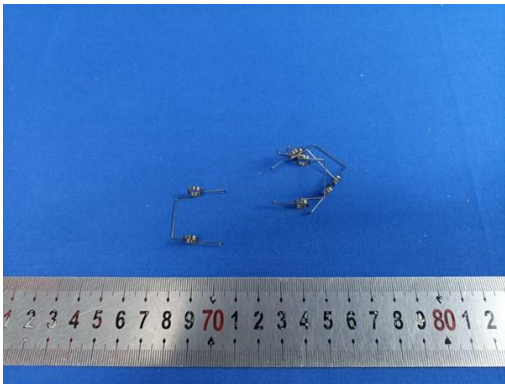
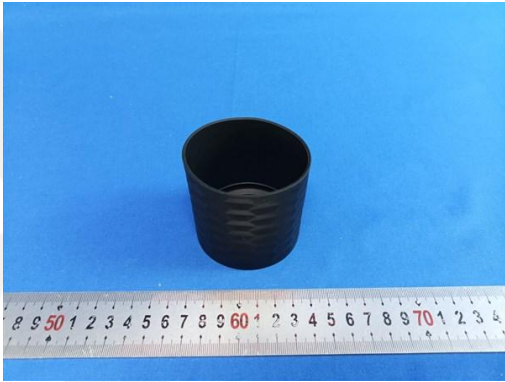
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T. No.	Sample No.	Colour and Description	Photograph
T12.	012	Dull silvery metal (Small spring) (Spring 2)	
T13.	013	Black silicone (Silicone grip)	
T14.	014	Dark grey TPE soft plastic (Bottom pad)	

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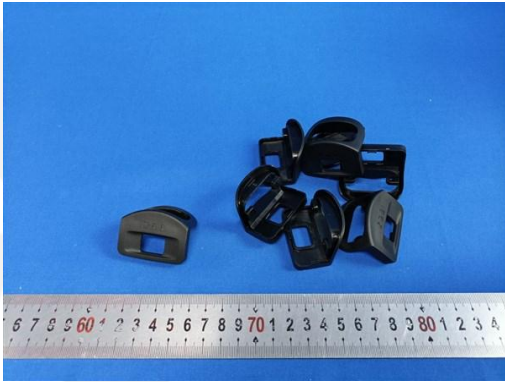
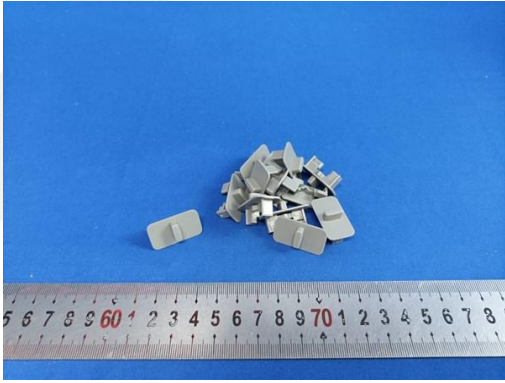
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T. No.	Sample No.	Colour and Description	Photograph
T15.	015	Black SAN plastic (Push button)	
T16.	016	Black HTPP plastic (Button window)	
T17.	017	Grey POM plastic (Sliding button)	

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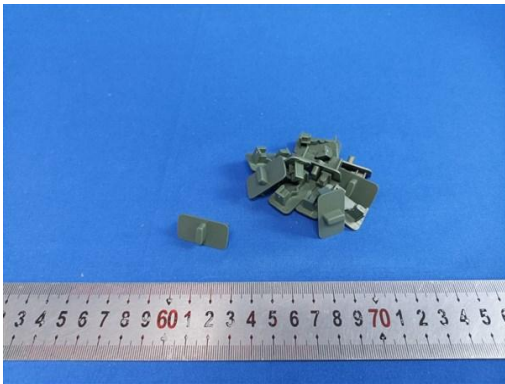
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T. No.	Sample No.	Colour and Description	Photograph
T18.	018	Grey green POM plastic (Sliding button)	
T19.	019	Grey TPE soft plastic (Lid overmold)	
T20.	020	Green TPE soft plastic (Lid overmold)	

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T. No.	Sample No.	Colour and Description	Photograph
T21.	021	Silvery metal (Screw)	
T22.	022	Green coating (Bottle)	
T23.	023	Grey coating (Bottle)	

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3. Test Result

3.1 Overall Migration

Test method: As specified in Regulation (EU) No. 10/2011 ANNEX III and V, test with reference to:
EN 1186-1:2002 (Guide to the selection of conditions and test methods for overall migration)
EN 1186-3:2022 (Test methods for overall migration in evaporable simulants)
[Reporting Limit: 3mg/dm²]

SIMULANT USED	TEST CONDITIONS	RESULTS [mg/dm ²]			LIMIT [mg/dm ²]
		SAMPLE 002 1 st Migration	SAMPLE 002 2 nd Migration	SAMPLE 002 3 rd Migration	
3% Acetic acid	100°C for 1 Hour	ND	ND	ND	<10
50% Ethanol	100°C for 1 Hour	ND	ND	ND	<10
Conclusion:		Pass*			--

SIMULANT USED	TEST CONDITIONS	RESULTS [mg/dm ²]			LIMIT [mg/dm ²]
		SAMPLE 003 1 st Migration	SAMPLE 003 2 nd Migration	SAMPLE 003 3 rd Migration	
3% Acetic acid	100°C for 1 Hour	ND	ND	ND	<10
50% Ethanol	100°C for 1 Hour	7.3	ND	ND	<10
Conclusion:		Pass*			--

SIMULANT USED	TEST CONDITIONS	RESULTS [mg/dm ²]			LIMIT [mg/dm ²]
		SAMPLE 007 1 st Migration	SAMPLE 007 2 nd Migration	SAMPLE 007 3 rd Migration	
3% Acetic acid	100°C for 1 Hour	ND	ND	ND	<10
50% Ethanol	100°C for 1 Hour	ND	ND	ND	<10
Conclusion:		Pass*			--

Note 1. "°C" denotes degree Celsius

2. "<" denotes less than

3. "mg/dm²" denotes milligram per square decimeter

4. "ND" denotes below the Report Limit

5. The specification was quoted from Regulation (EU) No. 10/2011 and its amendments

6. "*" denotes the results of second migration should lower than first migration, the result of third migration should lower than second migration.

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3.1 Overall Migration

Test method: As specified in Regulation (EU) No. 10/2011 ANNEX III and V, test with reference to:
EN 1186-1:2002 (Guide to the selection of conditions and test methods for overall migration)

EN 1186-3:2022 (Test methods for overall migration in evaporable simulants)

[Reporting Limit: 3mg/dm²]

SIMULANT USED	TEST CONDITIONS	RESULTS [mg/dm ²]			LIMIT [mg/dm ²]
		SAMPLE 008 1 st Migration	SAMPLE 008 2 nd Migration	SAMPLE 008 3 rd Migration	
3% Acetic acid	100°C for 1 Hour	ND	ND	ND	<10
50% Ethanol	100°C for 1 Hour	ND	ND	ND	<10
Conclusion:		Pass*			--

SIMULANT USED	TEST CONDITIONS	RESULTS [mg/dm ²]			LIMIT [mg/dm ²]
		SAMPLE 009 1 st Migration	SAMPLE 009 2 nd Migration	SAMPLE 009 3 rd Migration	
3% Acetic acid	100°C for 1 Hour	ND	ND	ND	<10
50% Ethanol	100°C for 1 Hour	ND	ND	ND	<10
Conclusion:		Pass*			--

Note 1. "°C" denotes degree Celsius

2. "<" denotes less than

3. "mg/dm²" denotes milligram per square decimeter

4. "ND" denotes below the Report Limit

5. The specification was quoted from Regulation (EU) No. 10/2011 and its amendments

6. "*" denotes the results of second migration should lower than first migration, the result of third migration should lower than second migration.

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3.1 Overall Migration

Test method: As specified in Regulation (EU) No. 10/2011 ANNEX III and V test with reference to:
EN 1186-1:2002(Guide to the selection of conditions and test methods for overall migration)

EN 1186-3:2022(Test methods for overall migration in evaporable simulants)

[Reporting Limit: 5mg/kg]

SIMULANT USED	TEST CONDITIONS	RESULTS [mg/kg]			LIMIT [mg/kg]
		SAMPLE 004 3 rd Migration	SAMPLE 005 3 rd Migration	SAMPLE 006 3 rd Migration	
3% Acetic acid	100°C for 1 Hour	ND	ND	ND	60
50% Ethanol	100°C for 1 Hour	ND	ND	ND	60
Conclusion:		Pass	Pass	Pass	--

Note 1. "°C" denotes degree Celsius

2. "<" denotes less than

3. "mg/kg" denotes milligram per kilogram

4. "ND" denotes below the Report Limit

5. The specification was quoted from Resolution ResAP(2004)5



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3.2 Specific Migration of PAA

Test method: with reference to EN 13130-1:2004, follow by Ultraviolet and visible spectrophotometry (UV-Vis).

Test Conditions: 3% Acetic acid: boiling temperature, closed for 24 hours

TEST ITEM	RESULT [mg/kg]			Reporting limit [mg/kg]	LIMIT [mg/kg]
	SAMPLE 003 1 st Migration	SAMPLE 003 2 nd Migration	SAMPLE 003 3 rd Migration		
Primary Aromatic Amine-Trial 1	ND	ND	ND	<0.01	<0.01
Primary Aromatic Amine-Trial 2	ND	ND	ND	<0.01	<0.01
Primary Aromatic Amine-Trial 3	ND	ND	ND	<0.01	<0.01
Conclusion:	Pass	Pass	Pass	--	--

Note 1. "°C" denotes degree Celsius

2. "<" denotes less than

3. "mg/kg" denotes milligram per kilogram

4. "ND" denotes below the Reporting limit

5. The specification was quoted from Regulation (EU) No. 10/2011 and its amendment (EU) No. 2020/1245, (EU) No. 284/2011

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3.2 Specific Migration of PAA

Test method: with reference to EN 13130-1:2004, follow by Ultraviolet and visible spectrophotometry (UV-Vis).

Test Conditions: 3% Acetic Acid: boiling temperature, closed for 24 hours

TEST ITEM	RESULT [mg/kg]			Reporting limit [mg/kg]	LIMIT [mg/kg]
	SAMPLE 002 1 st Migration	SAMPLE 002 2 nd Migration	SAMPLE 002 3 rd Migration		
Primary Aromatic Amine	ND	ND	ND	<0.01	<0.01
Conclusion:	Pass	Pass	Pass	--	--

TEST ITEM	RESULT [mg/kg]			Reporting limit [mg/kg]	LIMIT [mg/kg]
	SAMPLE 007 1 st Migration	SAMPLE 007 2 nd Migration	SAMPLE 007 3 rd Migration		
Primary Aromatic Amine	ND	ND	ND	<0.01	<0.01
Conclusion:	Pass	Pass	Pass	--	--

TEST ITEM	RESULT [mg/kg]			Reporting limit [mg/kg]	LIMIT [mg/kg]
	SAMPLE 008 1 st Migration	SAMPLE 008 2 nd Migration	SAMPLE 008 3 rd Migration		
Primary Aromatic Amine	ND	ND	ND	<0.01	<0.01
Conclusion:	Pass	Pass	Pass	--	--

TEST ITEM	RESULT [mg/kg]			Reporting limit [mg/kg]	LIMIT [mg/kg]
	SAMPLE 009 1 st Migration	SAMPLE 009 2 nd Migration	SAMPLE 009 3 rd Migration		
Primary Aromatic Amine	ND	ND	ND	<0.01	<0.01
Conclusion:	Pass	Pass	Pass	--	--

Note 1. "°C" denotes degree Celsius

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3. "mg/kg" denotes milligram per kilogram

4. "ND" denotes below the Reporting limit

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3.3 Specific Migration of PAAs

Test method: with reference to EN 13130-1:2004, follow by Liquid chromatography tandem mass spectrometer (LC-MS/MS). [Reporting Limit:0.002 mg/kg]

Test Conditions: 3% Acetic Acid: boiling temperature, closed for 24 hours

TEST ITEM	CAS No.	RESULTS [mg/kg foodstuff]			LIMIT [mg/kg]
		SAMPLE 003 1 st Migration	SAMPLE 003 2 nd Migration	SAMPLE 003 3 rd Migration	
4-Aminobiphenyl (4-ABP)-Trial 1	92-67-1	ND	ND	ND	<0.002
4-Aminobiphenyl (4-ABP)-Trial 2	92-67-1	ND	ND	ND	<0.002
4-Aminobiphenyl (4-ABP)-Trial 3	92-67-1	ND	ND	ND	<0.002
Aniline (ANL)-Trial 1	62-53-3	ND	ND	ND	<0.002
Aniline (ANL)-Trial 2	62-53-3	ND	ND	ND	<0.002
Aniline (ANL)-Trial 3	62-53-3	ND	ND	ND	<0.002
o-Anisidine (o-ASD)-Trial 1	90-04-0	ND	ND	ND	<0.002
o-Anisidine (o-ASD)-Trial 2	90-04-0	ND	ND	ND	<0.002
o-Anisidine (o-ASD)-Trial 3	90-04-0	ND	ND	ND	<0.002
Benzidine (BNZ)-Trial 1	92-87-5	ND	ND	ND	<0.002
Benzidine (BNZ)-Trial 2	92-87-5	ND	ND	ND	<0.002
Benzidine (BNZ)-Trial 3	92-87-5	ND	ND	ND	<0.002
4-Chloro-Aniline (4-CA)-Trial 1	106-47-8	ND	ND	ND	<0.002
4-Chloro-Aniline (4-CA)-Trial 2	106-47-8	ND	ND	ND	<0.002
4-Chloro-Aniline (4-CA)-Trial 3	106-47-8	ND	ND	ND	<0.002
4-Chloro-o-Toluidine (4-CoT)-Trial 1	95-69-2	ND	ND	ND	<0.002
4-Chloro-o-Toluidine (4-CoT)-Trial 2	95-69-2	ND	ND	ND	<0.002
4-Chloro-o-Toluidine (4-CoT)-Trial 3	95-69-2	ND	ND	ND	<0.002
2,4-Dimethylaniline (2,4-DMA)-Trial 1	95-68-1	ND	ND	ND	<0.002
2,4-Dimethylaniline (2,4-DMA)-Trial 2	95-68-1	ND	ND	ND	<0.002
2,4-Dimethylaniline (2,4-DMA)-Trial 3	95-68-1	ND	ND	ND	<0.002
4,4'-Diaminodiphenylether	101-80-4	ND	ND	ND	<0.002

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(4,4'-DPE)-Trial 1					
4,4'-Diaminodiphenylether (4,4'-DPE)-Trial 2	101-80-4	ND	ND	ND	<0.002
4,4'-Diaminodiphenylether (4,4'-DPE)-Trial 3	101-80-4	ND	ND	ND	<0.002
4,4*-Methylenedianiline (4,4*-MDA)-Trial 1	101-77-9	ND	ND	ND	<0.002
4,4*-Methylenedianiline (4,4*-MDA)-Trial 2	101-77-9	ND	ND	ND	<0.002
4,4*-Methylenedianiline (4,4*-MDA)-Trial 3	101-77-9	ND	ND	ND	<0.002
4,4'-Methylenedi-o-toluidine (4,4'-MDoT)-Trial 1	838-88-0	ND	ND	ND	<0.002
4,4'-Methylenedi-o-toluidine (4,4'-MDoT)-Trial 2	838-88-0	ND	ND	ND	<0.002
4,4'-Methylenedi-o-toluidine (4,4'-MDoT)-Trial 3	838-88-0	ND	ND	ND	<0.002
2-Methoxy-5-Methylaniline (2-M-5-MA)-Trial 1	120-71-8	ND	ND	ND	<0.002
2-Methoxy-5-Methylaniline (2-M-5-MA)-Trial 2	120-71-8	ND	ND	ND	<0.002
2-Methoxy-5-Methylaniline (2-M-5-MA)-Trial 3	120-71-8	ND	ND	ND	<0.002
m-Phenylenediamine (m- PDA)-Trial 1	108-45-2	ND	ND	ND	<0.002
m-Phenylenediamine (m- PDA)-Trial 2	108-45-2	ND	ND	ND	<0.002
m-Phenylenediamine (m- PDA)-Trial 3	108-45-2	ND	ND	ND	<0.002
4-Methoxy- mphenylenediamine (4-M- mPDA)-Trial 1	615-05-4	ND	ND	ND	<0.002
4-Methoxy- mphenylenediamine (4-M- mPDA)-Trial 2	615-05-4	ND	ND	ND	<0.002
4-Methoxy- mphenylenediamine (4-M- mPDA)-Trial 3	615-05-4	ND	ND	ND	<0.002
o-Toluidine (o-T)-Trial 1	95-53-4	ND	ND	ND	<0.002
o-Toluidine (o-T)-Trial 2	95-53-4	ND	ND	ND	<0.002
o-Toluidine (o-T)-Trial 3	95-53-4	ND	ND	ND	<0.002
2,4-Toluenediamine (2,4-	95-80-7	ND	ND	ND	<0.002

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TDA)-Trial 1					
2,4-Toluenediamine (2,4-TDA)-Trial 2	95-80-7	ND	ND	ND	<0.002
2,4-Toluenediamine (2,4-TDA)-Trial 3	95-80-7	ND	ND	ND	<0.002
3,3-Dimethylbenzidine (3,3-DMB)-Trial 1	119-93-7	ND	ND	ND	<0.002
3,3-Dimethylbenzidine (3,3-DMB)-Trial 2	119-93-7	ND	ND	ND	<0.002
3,3-Dimethylbenzidine (3,3-DMB)-Trial 3	119-93-7	ND	ND	ND	<0.002
2,4,5-Trimethylaniline (2,4,5-TMA)-Trial 1	137-17-7	ND	ND	ND	<0.002
2,4,5-Trimethylaniline (2,4,5-TMA)-Trial 2	137-17-7	ND	ND	ND	<0.002
2,4,5-Trimethylaniline (2,4,5-TMA)-Trial 3	137-17-7	ND	ND	ND	<0.002
2,6-Toluenediamine (2,6-TDA)-Trial 1	823-40-5	ND	ND	ND	<0.002
2,6-Toluenediamine (2,6-TDA)-Trial 2	823-40-5	ND	ND	ND	<0.002
2,6-Toluenediamine (2,6-TDA)-Trial 3	823-40-5	ND	ND	ND	<0.002
2,6-Dimethylaniline (2,6-DMA)-Trial 1	87-62-7	ND	ND	ND	<0.002
2,6-Dimethylaniline (2,6-DMA)-Trial 2	87-62-7	ND	ND	ND	<0.002
2,6-Dimethylaniline (2,6-DMA)-Trial 3	87-62-7	ND	ND	ND	<0.002
p-Phenylenediamine (p-PDA)-Trial 1	106-50-3	ND	ND	ND	<0.002
p-Phenylenediamine (p-PDA)-Trial 2	106-50-3	ND	ND	ND	<0.002
p-Phenylenediamine (p-PDA)-Trial 3	106-50-3	ND	ND	ND	<0.002
1,5-Diaminenaphthalene (1,5-DAN)-Trial 1	2243-62-01	ND	ND	ND	<0.002
1,5-Diaminenaphthalene (1,5-DAN)-Trial 2	2243-62-01	ND	ND	ND	<0.002
1,5-Diaminenaphthalene (1,5-DAN)-Trial 3	2243-62-01	ND	ND	ND	<0.002
2-naphthylamine-Trial 1	91-59-8	ND	ND	ND	<0.002

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2-naphthylamine-Trial 2	91-59-8	ND	ND	ND	<0.002
2-naphthylamine-Trial 3	91-59-8	ND	ND	ND	<0.002
o-aminoazotoluene-Trial 1	97-56-3	ND	ND	ND	<0.002
o-aminoazotoluene-Trial 2	97-56-3	ND	ND	ND	<0.002
o-aminoazotoluene-Trial 3	97-56-3	ND	ND	ND	<0.002
5-nitro-o-toluidine-Trial 1	99-55-8	ND	ND	ND	<0.002
5-nitro-o-toluidine-Trial 2	99-55-8	ND	ND	ND	<0.002
5-nitro-o-toluidine-Trial 3	99-55-8	ND	ND	ND	<0.002
3,3'-dichlorobenzidine-Trial 1	91-94-1	ND	ND	ND	<0.002
3,3'-dichlorobenzidine-Trial 2	91-94-1	ND	ND	ND	<0.002
3,3'-dichlorobenzidine-Trial 3	91-94-1	ND	ND	ND	<0.002
3,3'-dimethoxybenzidine-Trial 1	119-90-4	ND	ND	ND	<0.002
3,3'-dimethoxybenzidine-Trial 2	119-90-4	ND	ND	ND	<0.002
3,3'-dimethoxybenzidine-Trial 3	119-90-4	ND	ND	ND	<0.002
4,4'-methylene-bis-(2-chloro-aniline)-Trial 1	101-14-4	ND	ND	ND	<0.002
4,4'-methylene-bis-(2-chloro-aniline)-Trial 2	101-14-4	ND	ND	ND	<0.002
4,4'-methylene-bis-(2-chloro-aniline)-Trial 3	101-14-4	ND	ND	ND	<0.002
4,4'-thiodianiline-Trial 1	139-65-1	ND	ND	ND	<0.002
4,4'-thiodianiline-Trial 2	139-65-1	ND	ND	ND	<0.002
4,4'-thiodianiline-Trial 3	139-65-1	ND	ND	ND	<0.002
4-amino azobenzene-Trial 1	60-09-3	ND	ND	ND	<0.002
4-amino azobenzene-Trial 2	60-09-3	ND	ND	ND	<0.002
4-amino azobenzene-Trial 3	60-09-3	ND	ND	ND	<0.002
Conclusion:		Pass	Pass	Pass	--

Note 1. "°C" denotes degree Celsius

2. "<" denotes less than

3. "mg/kg" denotes milligram per kilogram

4. "ND" denotes below the Report Limit

5. The specification was quoted from Regulation (EU) No. 10/2011 and its amendment (EU) No. 2020/1245, (EU) No. 284/2011

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3.3 Specific Migration of PAAs

Test method: with reference to EN 13130-1:2004, follow by Liquid chromatography tandem mass spectrometer (LC-MS/MS). [Reporting Limit:0.002 mg/kg]

Test Conditions: 3% Acetic Acid: boiling temperature, closed for 24 hours

TEST ITEM	CAS No.	RESULTS [mg/kg foodstuff]			LIMIT [mg/kg]
		SAMPLE 002 1 st Migration	SAMPLE 002 2 nd Migration	SAMPLE 002 3 rd Migration	
4-Aminobiphenyl (4-ABP)	92-67-1	ND	ND	ND	<0.002
Aniline (ANL)	62-53-3	ND	ND	ND	<0.002
o-Anisidine (o-ASD)	90-04-0	ND	ND	ND	<0.002
Benzidine (BNZ)	92-87-5	ND	ND	ND	<0.002
4-Chloro-Aniline (4-CA)	106-47-8	ND	ND	ND	<0.002
4-Chloro-o-Toluidine (4-CoT)	95-69-2	ND	ND	ND	<0.002
2,4-Dimethylaniline (2,4-DMA)	95-68-1	ND	ND	ND	<0.002
4,4'-Diaminodiphenylether (4,4'-DPE)	101-80-4	ND	ND	ND	<0.002
4,4'-Methylenedianiline (4,4'-MDA)	101-77-9	ND	ND	ND	<0.002
4,4'-Methylenedi-o-toluidine (4,4'-MDoT)	838-88-0	ND	ND	ND	<0.002
2-Methoxy-5-Methylaniline (2-M-5-MA)	120-71-8	ND	ND	ND	<0.002
m-Phenylenediamine (m-PDA)	108-45-2	ND	ND	ND	<0.002
4-Methoxy-mphenylenediamine (4-M-mPDA)	615-05-4	ND	ND	ND	<0.002
o-Toluidine (o-T)	95-53-4	ND	ND	ND	<0.002
2,4-Toluenediamine (2,4-TDA)	95-80-7	ND	ND	ND	<0.002
3,3-Dimethylbenzidine (3,3-DMB)	119-93-7	ND	ND	ND	<0.002
2,4,5-Trimethylaniline (2,4,5-TMA)	137-17-7	ND	ND	ND	<0.002
2,6-Toluenediamine (2,6-TDA)	823-40-5	ND	ND	ND	<0.002
2,6-Dimethylaniline (2,6-DMA)	87-62-7	ND	ND	ND	<0.002
p-Phenylenediamine (p-PDA)	106-50-3	ND	ND	ND	<0.002
1,5-Diaminenaphthalene	2243-62-01	ND	ND	ND	<0.002

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(1,5-DAN)					
2-naphthylamine	91-59-8	ND	ND	ND	<0.002
o-aminoazotoluene	97-56-3	ND	ND	ND	<0.002
5-nitro-o-toluidine	99-55-8	ND	ND	ND	<0.002
3,3'-dichlorobenzidine	91-94-1	ND	ND	ND	<0.002
3,3'-dimethoxybenzidine	119-90-4	ND	ND	ND	<0.002
4,4'-methylene-bis-(2-chloro-aniline)	101-14-4	ND	ND	ND	<0.002
4,4'-thiodianiline	139-65-1	ND	ND	ND	<0.002
4-amino azobenzene	60-09-3	ND	ND	ND	<0.002
Conclusion:		Pass	Pass	Pass	--

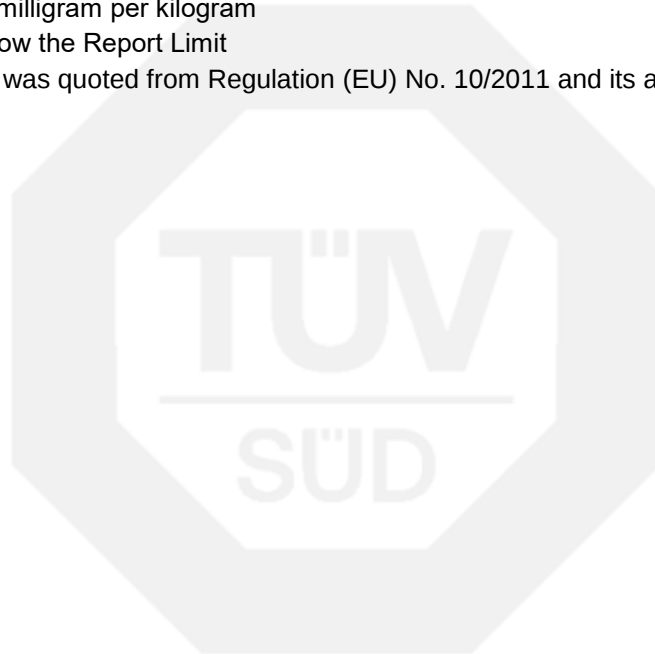
Note 1. "°C" denotes degree Celsius

2. "<" denotes less than

3. "mg/kg" denotes milligram per kilogram

4. "ND" denotes below the Report Limit

5. The specification was quoted from Regulation (EU) No. 10/2011 and its amendments



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3.3 Specific Migration of PAAs

Test method: with reference to EN 13130-1:2004, follow by Liquid chromatography tandem mass spectrometer (LC-MS/MS). [Reporting Limit:0.002 mg/kg]

Test Conditions: 3% Acetic Acid: boiling temperature, closed for 24 hours

TEST ITEM	CAS No.	RESULTS [mg/kg foodstuff]			LIMIT [mg/kg]
		SAMPLE 007 1 st Migration	SAMPLE 007 2 nd Migration	SAMPLE 007 3 rd Migration	
4-Aminobiphenyl (4-ABP)	92-67-1	ND	ND	ND	<0.002
Aniline (ANL)	62-53-3	ND	ND	ND	<0.002
o-Anisidine (o-ASD)	90-04-0	ND	ND	ND	<0.002
Benzidine (BNZ)	92-87-5	ND	ND	ND	<0.002
4-Chloro-Aniline (4-CA)	106-47-8	ND	ND	ND	<0.002
4-Chloro-o-Toluidine (4-CoT)	95-69-2	ND	ND	ND	<0.002
2,4-Dimethylaniline (2,4-DMA)	95-68-1	ND	ND	ND	<0.002
4,4'-Diaminodiphenylether (4,4'-DPE)	101-80-4	ND	ND	ND	<0.002
4,4'-Methylenedianiline (4,4'-MDA)	101-77-9	ND	ND	ND	<0.002
4,4'-Methylenedi-o-toluidine (4,4'-MDoT)	838-88-0	ND	ND	ND	<0.002
2-Methoxy-5-Methylaniline (2-M-5-MA)	120-71-8	ND	ND	ND	<0.002
m-Phenylenediamine (m-PDA)	108-45-2	ND	ND	ND	<0.002
4-Methoxy-mphenylenediamine (4-M-mPDA)	615-05-4	ND	ND	ND	<0.002
o-Toluidine (o-T)	95-53-4	ND	ND	ND	<0.002
2,4-Toluenediamine (2,4-TDA)	95-80-7	ND	ND	ND	<0.002
3,3-Dimethylbenzidine (3,3-DMB)	119-93-7	ND	ND	ND	<0.002
2,4,5-Trimethylaniline (2,4,5-TMA)	137-17-7	ND	ND	ND	<0.002
2,6-Toluenediamine (2,6-TDA)	823-40-5	ND	ND	ND	<0.002
2,6-Dimethylaniline (2,6-DMA)	87-62-7	ND	ND	ND	<0.002
p-Phenylenediamine (p-PDA)	106-50-3	ND	ND	ND	<0.002
1,5-Diaminenaphthalene	2243-62-01	ND	ND	ND	<0.002

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(1,5-DAN)					
2-naphthylamine	91-59-8	ND	ND	ND	<0.002
o-aminoazotoluene	97-56-3	ND	ND	ND	<0.002
5-nitro-o-toluidine	99-55-8	ND	ND	ND	<0.002
3,3'-dichlorobenzidine	91-94-1	ND	ND	ND	<0.002
3,3'-dimethoxybenzidine	119-90-4	ND	ND	ND	<0.002
4,4'-methylene-bis-(2-chloro-aniline)	101-14-4	ND	ND	ND	<0.002
4,4'-thiodianiline	139-65-1	ND	ND	ND	<0.002
4-amino azobenzene	60-09-3	ND	ND	ND	<0.002
Conclusion:		Pass	Pass	Pass	--

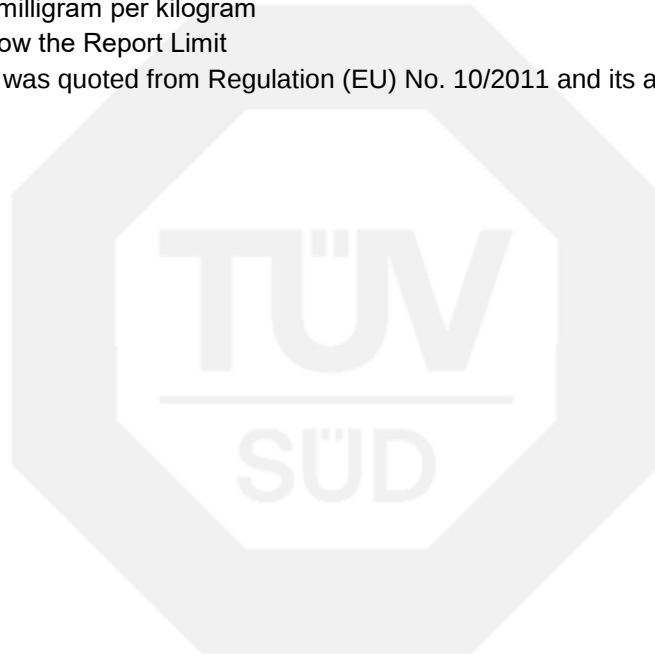
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3.3 Specific Migration of PAAs

Test method: with reference to EN 13130-1:2004, follow by Liquid chromatography tandem mass spectrometer (LC-MS/MS). [Reporting Limit:0.002 mg/kg]

Test Conditions: 3% Acetic Acid: boiling temperature, closed for 24 hours

TEST ITEM	CAS No.	RESULTS [mg/kg foodstuff]			LIMIT [mg/kg]
		SAMPLE 008 1 st Migration	SAMPLE 008 2 nd Migration	SAMPLE 008 3 rd Migration	
4-Aminobiphenyl (4-ABP)	92-67-1	ND	ND	ND	<0.002
Aniline (ANL)	62-53-3	ND	ND	ND	<0.002
o-Anisidine (o-ASD)	90-04-0	ND	ND	ND	<0.002
Benzidine (BNZ)	92-87-5	ND	ND	ND	<0.002
4-Chloro-Aniline (4-CA)	106-47-8	ND	ND	ND	<0.002
4-Chloro-o-Toluidine (4-CoT)	95-69-2	ND	ND	ND	<0.002
2,4-Dimethylaniline (2,4-DMA)	95-68-1	ND	ND	ND	<0.002
4,4'-Diaminodiphenylether (4,4'-DPE)	101-80-4	ND	ND	ND	<0.002
4,4'-Methylenedianiline (4,4'-MDA)	101-77-9	ND	ND	ND	<0.002
4,4'-Methylenedi-o-toluidine (4,4'-MDoT)	838-88-0	ND	ND	ND	<0.002
2-Methoxy-5-Methylaniline (2-M-5-MA)	120-71-8	ND	ND	ND	<0.002
m-Phenylenediamine (m-PDA)	108-45-2	ND	ND	ND	<0.002
4-Methoxy-mphenylenediamine (4-M-mPDA)	615-05-4	ND	ND	ND	<0.002
o-Toluidine (o-T)	95-53-4	ND	ND	ND	<0.002
2,4-Toluenediamine (2,4-TDA)	95-80-7	ND	ND	ND	<0.002
3,3-Dimethylbenzidine (3,3-DMB)	119-93-7	ND	ND	ND	<0.002
2,4,5-Trimethylaniline (2,4,5-TMA)	137-17-7	ND	ND	ND	<0.002
2,6-Toluenediamine (2,6-TDA)	823-40-5	ND	ND	ND	<0.002
2,6-Dimethylaniline (2,6-DMA)	87-62-7	ND	ND	ND	<0.002
p-Phenylenediamine (p-PDA)	106-50-3	ND	ND	ND	<0.002
1,5-Diaminenaphthalene	2243-62-01	ND	ND	ND	<0.002

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(1,5-DAN)					
2-naphthylamine	91-59-8	ND	ND	ND	<0.002
o-aminoazotoluene	97-56-3	ND	ND	ND	<0.002
5-nitro-o-toluidine	99-55-8	ND	ND	ND	<0.002
3,3'-dichlorobenzidine	91-94-1	ND	ND	ND	<0.002
3,3'-dimethoxybenzidine	119-90-4	ND	ND	ND	<0.002
4,4'-methylene-bis-(2-chloro-aniline)	101-14-4	ND	ND	ND	<0.002
4,4'-thiodianiline	139-65-1	ND	ND	ND	<0.002
4-amino azobenzene	60-09-3	ND	ND	ND	<0.002
Conclusion:		Pass	Pass	Pass	--

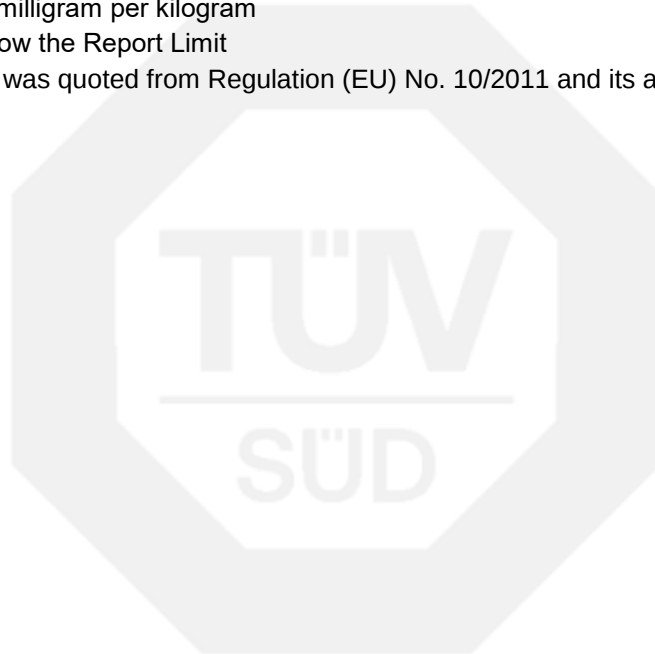
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3.3 Specific Migration of PAAs

Test method: with reference to EN 13130-1:2004, follow by Liquid chromatography tandem mass spectrometer (LC-MS/MS). [Reporting Limit:0.002 mg/kg]

Test Conditions: 3% Acetic Acid: boiling temperature, closed for 24 hours

TEST ITEM	CAS No.	RESULTS [mg/kg foodstuff]			LIMIT [mg/kg]
		SAMPLE 009 1 st Migration	SAMPLE 009 2 nd Migration	SAMPLE 009 3 rd Migration	
4-Aminobiphenyl (4-ABP)	92-67-1	ND	ND	ND	<0.002
Aniline (ANL)	62-53-3	ND	ND	ND	<0.002
o-Anisidine (o-ASD)	90-04-0	ND	ND	ND	<0.002
Benzidine (BNZ)	92-87-5	ND	ND	ND	<0.002
4-Chloro-Aniline (4-CA)	106-47-8	ND	ND	ND	<0.002
4-Chloro-o-Toluidine (4-CoT)	95-69-2	ND	ND	ND	<0.002
2,4-Dimethylaniline (2,4-DMA)	95-68-1	ND	ND	ND	<0.002
4,4'-Diaminodiphenylether (4,4'-DPE)	101-80-4	ND	ND	ND	<0.002
4,4'-Methylenedianiline (4,4'-MDA)	101-77-9	ND	ND	ND	<0.002
4,4'-Methylenedi-o-toluidine (4,4'-MDoT)	838-88-0	ND	ND	ND	<0.002
2-Methoxy-5-Methylaniline (2-M-5-MA)	120-71-8	ND	ND	ND	<0.002
m-Phenylenediamine (m-PDA)	108-45-2	ND	ND	ND	<0.002
4-Methoxy-mphenylenediamine (4-M-mPDA)	615-05-4	ND	ND	ND	<0.002
o-Toluidine (o-T)	95-53-4	ND	ND	ND	<0.002
2,4-Toluenediamine (2,4-TDA)	95-80-7	ND	ND	ND	<0.002
3,3-Dimethylbenzidine (3,3-DMB)	119-93-7	ND	ND	ND	<0.002
2,4,5-Trimethylaniline (2,4,5-TMA)	137-17-7	ND	ND	ND	<0.002
2,6-Toluenediamine (2,6-TDA)	823-40-5	ND	ND	ND	<0.002
2,6-Dimethylaniline (2,6-DMA)	87-62-7	ND	ND	ND	<0.002
p-Phenylenediamine (p-PDA)	106-50-3	ND	ND	ND	<0.002
1,5-Diaminenaphthalene	2243-62-01	ND	ND	ND	<0.002

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(1,5-DAN)					
2-naphthylamine	91-59-8	ND	ND	ND	<0.002
o-aminoazotoluene	97-56-3	ND	ND	ND	<0.002
5-nitro-o-toluidine	99-55-8	ND	ND	ND	<0.002
3,3'-dichlorobenzidine	91-94-1	ND	ND	ND	<0.002
3,3'-dimethoxybenzidine	119-90-4	ND	ND	ND	<0.002
4,4'-methylene-bis-(2-chloro-aniline)	101-14-4	ND	ND	ND	<0.002
4,4'-thiodianiline	139-65-1	ND	ND	ND	<0.002
4-amino azobenzene	60-09-3	ND	ND	ND	<0.002
Conclusion:		Pass	Pass	Pass	--

Note 1. "°C" denotes degree Celsius

2. "<" denotes less than

3. "mg/kg" denotes milligram per kilogram

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3.4 Specific Migration of Heavy Metals

Test method: with reference to EN 13130-1:2004, follow by Inductively Coupled Plasma Mass Spectrometry (ICP-MS).

Test Conditions: 3% Acetic Acid: boiling temperature, closed for 24 hours

TEST ITEM	RESULT [mg/kg foodstuff]			Reporting limit [mg/kg]	LIMIT [mg/kg]
	SAMPLE 002 1 st Migration	SAMPLE 002 2 nd Migration	SAMPLE 002 3 rd Migration		
Aluminium (Al)	ND	ND	ND	<0.1	<1
Antimony (Sb)	ND	ND	ND	<0.01	<0.04
Arsenic (As)	ND	ND	ND	<0.01	<0.01
Barium (Ba)	ND	ND	ND	<0.1	<1
Cadmium (Cd)	ND	ND	ND	<0.002	<0.002
Chromium (Cr)	ND	ND	ND	<0.01	<0.01
Cobalt (Co)	ND	ND	ND	<0.02	<0.05
Copper (Cu)	ND	ND	ND	<0.5	<5
Iron (Fe)	ND	ND	ND	<1.0	<48
Lead (Pb)	ND	ND	ND	<0.01	<0.01
Lithium (Li)	ND	ND	ND	<0.1	<0.6
Manganese (Mn)	ND	ND	ND	<0.05	<0.6
Mercury (Hg)	ND	ND	ND	<0.01	<0.01
Nickel (Ni)	ND	ND	ND	<0.01	<0.02
Zinc (Zn)	ND	ND	ND	<1.0	<5
Sum of Eu, Gd, La, Tb	ND	ND	ND	<0.04	<0.05
Conclusion:	Pass*			--	--

Note 1. "°C" denotes degree Celsius

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3.4 Specific Migration of Heavy Metals

Test method: with reference to EN 13130-1:2004, follow by Inductively Coupled Plasma Mass Spectrometry (ICP-MS).

Test Conditions: 3% Acetic Acid: boiling temperature, closed for 24 hours

TEST ITEM	RESULT [mg/kg foodstuff]			Reporting limit [mg/kg]	LIMIT [mg/kg]
	SAMPLE 003 1 st Migration	SAMPLE 003 2 nd Migration	SAMPLE 003 3 rd Migration		
Aluminium (Al)	ND	ND	ND	<0.1	<1
Antimony (Sb)	ND	ND	ND	<0.01	<0.04
Arsenic (As)	ND	ND	ND	<0.01	<0.01
Barium (Ba)	ND	ND	ND	<0.1	<1
Cadmium (Cd)	ND	ND	ND	<0.002	<0.002
Chromium (Cr)	ND	ND	ND	<0.01	<0.01
Cobalt (Co)	ND	ND	ND	<0.02	<0.05
Copper (Cu)	ND	ND	ND	<0.5	<5
Iron (Fe)	ND	ND	ND	<1.0	<48
Lead (Pb)	ND	ND	ND	<0.01	<0.01
Lithium (Li)	ND	ND	ND	<0.1	<0.6
Manganese (Mn)	ND	ND	ND	<0.05	<0.6
Mercury (Hg)	ND	ND	ND	<0.01	<0.01
Nickel (Ni)	ND	ND	ND	<0.01	<0.02
Zinc (Zn)	ND	ND	ND	<1.0	<5
Sum of Eu, Gd, La, Tb	ND	ND	ND	<0.04	<0.05
Conclusion:	Pass*			--	--

Note 1. "°C" denotes degree Celsius

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3.4 Specific Migration of Heavy Metals

Test method: with reference to EN 13130-1:2004, follow by Inductively Coupled Plasma Mass Spectrometry (ICP-MS).

Test Conditions: 3% Acetic Acid: boiling temperature, closed for 24 hours

TEST ITEM	RESULT [mg/kg foodstuff]			Reporting limit [mg/kg]	LIMIT [mg/kg]
	SAMPLE 007 1 st Migration	SAMPLE 007 2 nd Migration	SAMPLE 007 3 rd Migration		
Aluminium (Al)	ND	ND	ND	<0.1	<1
Antimony (Sb)	ND	ND	ND	<0.01	<0.04
Arsenic (As)	ND	ND	ND	<0.01	<0.01
Barium (Ba)	ND	ND	ND	<0.1	<1
Cadmium (Cd)	ND	ND	ND	<0.002	<0.002
Chromium (Cr)	ND	ND	ND	<0.01	<0.01
Cobalt (Co)	ND	ND	ND	<0.02	<0.05
Copper (Cu)	ND	ND	ND	<0.5	<5
Iron (Fe)	ND	ND	ND	<1.0	<48
Lead (Pb)	ND	ND	ND	<0.01	<0.01
Lithium (Li)	ND	ND	ND	<0.1	<0.6
Manganese (Mn)	ND	ND	ND	<0.05	<0.6
Mercury (Hg)	ND	ND	ND	<0.01	<0.01
Nickel (Ni)	ND	ND	ND	<0.01	<0.02
Zinc (Zn)	ND	ND	ND	<1.0	<5
Sum of Eu, Gd, La, Tb	ND	ND	ND	<0.04	<0.05
Conclusion:	Pass*			--	--

Note 1. "°C" denotes degree Celsius

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3.4 Specific Migration of Heavy Metals

Test method: with reference to EN 13130-1:2004, follow by Inductively Coupled Plasma Mass Spectrometry (ICP-MS).

Test Conditions: 3% Acetic Acid: boiling temperature, closed for 24 hours

TEST ITEM	RESULT [mg/kg foodstuff]			Reporting limit [mg/kg]	LIMIT [mg/kg]
	SAMPLE 008 1 st Migration	SAMPLE 008 2 nd Migration	SAMPLE 008 3 rd Migration		
Aluminium (Al)	ND	ND	ND	<0.1	<1
Antimony (Sb)	ND	ND	ND	<0.01	<0.04
Arsenic (As)	ND	ND	ND	<0.01	<0.01
Barium (Ba)	ND	ND	ND	<0.1	<1
Cadmium (Cd)	ND	ND	ND	<0.002	<0.002
Chromium (Cr)	ND	ND	ND	<0.01	<0.01
Cobalt (Co)	ND	ND	ND	<0.02	<0.05
Copper (Cu)	ND	ND	ND	<0.5	<5
Iron (Fe)	ND	ND	ND	<1.0	<48
Lead (Pb)	ND	ND	ND	<0.01	<0.01
Lithium (Li)	ND	ND	ND	<0.1	<0.6
Manganese (Mn)	ND	ND	ND	<0.05	<0.6
Mercury (Hg)	ND	ND	ND	<0.01	<0.01
Nickel (Ni)	ND	ND	ND	<0.01	<0.02
Zinc (Zn)	ND	ND	ND	<1.0	<5
Sum of Eu, Gd, La, Tb	ND	ND	ND	<0.04	<0.05
Conclusion:	Pass*			--	--

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3.4 Specific Migration of Heavy Metals

Test method: with reference to EN 13130-1:2004, follow by Inductively Coupled Plasma Mass Spectrometry (ICP-MS).

Test Conditions: 3% Acetic Acid: boiling temperature, closed for 24 hours

TEST ITEM	RESULT [mg/kg foodstuff]			Reporting limit [mg/kg]	LIMIT [mg/kg]
	SAMPLE 009 1 st Migration	SAMPLE 009 2 nd Migration	SAMPLE 009 3 rd Migration		
Aluminium (Al)	ND	ND	ND	<0.1	<1
Antimony (Sb)	ND	ND	ND	<0.01	<0.04
Arsenic (As)	ND	ND	ND	<0.01	<0.01
Barium (Ba)	ND	ND	ND	<0.1	<1
Cadmium (Cd)	ND	ND	ND	<0.002	<0.002
Chromium (Cr)	ND	ND	ND	<0.01	<0.01
Cobalt (Co)	ND	ND	ND	<0.02	<0.05
Copper (Cu)	ND	ND	ND	<0.5	<5
Iron (Fe)	ND	ND	ND	<1.0	<48
Lead (Pb)	ND	ND	ND	<0.01	<0.01
Lithium (Li)	ND	ND	ND	<0.1	<0.6
Manganese (Mn)	ND	ND	ND	<0.05	<0.6
Mercury (Hg)	ND	ND	ND	<0.01	<0.01
Nickel (Ni)	ND	ND	ND	<0.01	<0.02
Zinc (Zn)	ND	ND	ND	<1.0	<5
Sum of Eu, Gd, La, Tb	ND	ND	ND	<0.04	<0.05
Conclusion:	Pass*			--	--

Note 1. "°C" denotes degree Celsius

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3.5 Specific Migration of Formaldehyde

Test method: with reference to EN 13130-1:2004 and CEN/TS 13130-23:2005, followed by Ultraviolet and visible spectrophotometry (UV-Vis).

Test Conditions: 3% Acetic Acid: boiling temperature, closed for 24 hours

TEST ITEM	RESULT [mg/kg foodstuff]			Reporting limit [mg/kg]	LIMIT [mg/kg]
	SAMPLE 007 1 st Migration	SAMPLE 007 2 nd Migration	SAMPLE 007 3 rd Migration		
Formaldehyde	1.26	1.23	1.02	<1.0	15
Conclusion:	Pass*			--	--

TEST ITEM	RESULT [mg/kg foodstuff]			Reporting limit [mg/kg]	LIMIT [mg/kg]
	SAMPLE 008 1 st Migration	SAMPLE 008 2 nd Migration	SAMPLE 008 3 rd Migration		
Formaldehyde	2.17	2.12	1.45	<1.0	15
Conclusion:	Pass*			--	--

TEST ITEM	RESULT [mg/kg foodstuff]			Reporting limit [mg/kg]	LIMIT [mg/kg]
	SAMPLE 009 1 st Migration	SAMPLE 009 2 nd Migration	SAMPLE 009 3 rd Migration		
Formaldehyde	1.45	1.36	1.15	<1.0	15
Conclusion:	Pass*			--	--

Note 1. "°C" denotes degree Celsius

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3. "mg/kg" denotes milligram per kilogram

4. "ND" denotes below the Reporting limit

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3.6 Specific Migration of Hexamethylenediamine (HMDA)

Test method: with reference to EN 13130-1 and CEN/TS 13130-21, follow by Gas Chromatography Mass Spectrometry (GC-MS).

Test Conditions: 3% Acetic Acid: boiling temperature, closed for 24 hours

TEST ITEM	RESULT [mg/kg foodstuff]			Reporting limit [mg/kg]	LIMIT [mg/kg]
	SAMPLE 003 1 st Migration	SAMPLE 003 2 nd Migration	SAMPLE 003 3 rd Migration		
Hexamethylenediamine	ND	ND	ND	<0.5	2.4
Conclusion:	Pass*			--	--

Note 1. "°C" denotes degree Celsius

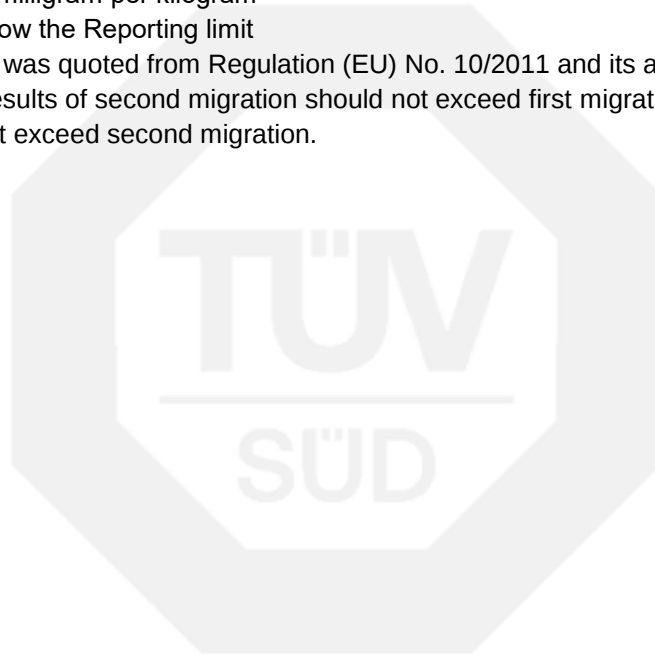
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3.7 Extractable 24 Heavy Metals

Test as specified in EDQM Technical Guide for metals and alloys used in food contact materials and articles (2nd Edition 2024)

Sample(s) was tested with below test condition, and followed by ICP-OES and ICP-MS analysis

Test Conditions: 0.5% citric acid: boiling temperature, closed for 24 hours

Elements		Result(s) of 1 st + 2 nd Migration [mg/kg foodstuff]	Result(s) of 3 rd Migration [mg/kg foodstuff]	7*Maximum Permissible Limits [mg/k g foodstuff]	Maximum Permissible Limits [mg/k g foodstuff]
		SAMPLE 010			
1.	Aluminum (Al)	<0.2	<0.1	35	5
2.	Antimony (Sb)	<0.01	<0.005	0.28	0.04
3.	Arsenic (As)	<0.0008	<0.0004	0.014	0.002
4.	Barium (Ba)	<0.2	<0.1	8.4	1.2
5.	Beryllium (Be)	<0.004	<0.002	0.07	0.01
6.	Cadmium (Cd)	<0.0008	<0.0004	0.035	0.005
7.	Chromium (Cr)	<0.10	<0.05	7	1
8.	Cobalt (Co)	<0.004	<0.002	0.14	0.02
9.	Copper (Cu)	<0.2	<0.1	28	4
10.	Iron (Fe)	0.3	<0.1	280	40
11.	Lead (Pb)	<0.02	<0.01	0.07	0.01
12.	Lithium (Li)	<0.01	<0.005	0.336	0.048
13.	Magnesium (Mg)	<0.1	<0.05	-	-
14.	Manganese (Mn)	<0.2	<0.1	3.85	0.55
15.	Mercury (Hg)	<0.001	<0.0005	0.021	0.003
16.	Molybdenum (Mo)	<0.004	<0.002	0.84	0.12
17.	Nickel (Ni)	<0.1	<0.05	0.98	0.14
18.	Silver (Ag)	<0.004	<0.002	0.56	0.08
19.	Thallium (Tl)	<0.0002	<0.0001	0.007	0.001
20.	Tin (Sn)	<1.0	<0.5	700	100
21.	Titanium (Ti)	<0.1	<0.05	-	-
22.	Vanadium (V)	<0.004	<0.002	0.07	0.01
23.	Zinc (Zn)	<0.2	<0.1	35	5
24.	Zirconium (Zr)	<0.2	<0.1	14	2
Conclusion		Pass		-	

Note 1. "°C" denotes degree Celsius

2. "<" denotes less than

3. "mg/kg" denotes milligram per kilogram

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3.7 Extractable 24 Heavy Metals

Test as specified in EDQM Technical Guide for metals and alloys used in food contact materials and articles (2nd Edition 2024)

Sample(s) was tested with below test condition, and followed by ICP-OES and ICP-MS analysis

Test Conditions: 0.5% citric acid: boiling temperature, closed for 24 hours

Elements		Result(s) of 1 st + 2 nd Migration [mg/kg foodstuff]	Result(s) of 3 rd Migration [mg/kg foodstuff]	7*Maximum Permissible Limits [mg/k g foodstuff]	Maximum Permissible Limits [mg/k g foodstuff]
		SAMPLE 012			
1.	Aluminum (Al)	<0.2	<0.1	35	5
2.	Antimony (Sb)	<0.01	<0.005	0.28	0.04
3.	Arsenic (As)	<0.0008	<0.0004	0.014	0.002
4.	Barium (Ba)	<0.2	<0.1	8.4	1.2
5.	Beryllium (Be)	<0.004	<0.002	0.07	0.01
6.	Cadmium (Cd)	<0.0008	<0.0004	0.035	0.005
7.	Chromium (Cr)	<0.10	<0.05	7	1
8.	Cobalt (Co)	0.004	<0.002	0.14	0.02
9.	Copper (Cu)	<0.2	<0.1	28	4
10.	Iron (Fe)	2.8	0.6	280	40
11.	Lead (Pb)	<0.02	<0.01	0.07	0.01
12.	Lithium (Li)	<0.01	<0.005	0.336	0.048
13.	Magnesium (Mg)	<0.1	<0.05	-	-
14.	Manganese (Mn)	<0.2	<0.1	3.85	0.55
15.	Mercury (Hg)	<0.001	<0.0005	0.021	0.003
16.	Molybdenum (Mo)	<0.004	<0.002	0.84	0.12
17.	Nickel (Ni)	<0.1	<0.05	0.98	0.14
18.	Silver (Ag)	<0.004	<0.002	0.56	0.08
19.	Thallium (Tl)	<0.0002	<0.0001	0.007	0.001
20.	Tin (Sn)	<1.0	<0.5	700	100
21.	Titanium (Ti)	<0.1	<0.05	-	-
22.	Vanadium (V)	<0.004	<0.002	0.07	0.01
23.	Zinc (Zn)	<0.2	<0.1	35	5
24.	Zirconium (Zr)	<0.2	<0.1	14	2
Conclusion		Pass		-	

Note 1. "°C" denotes degree Celsius

2. "<" denotes less than

3. "mg/kg" denotes milligram per kilogram

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3.8 Sensory test

Test for compliance with Regulation (EC) No. 1935/2004 Article 3(1)

Test method: With reference to DIN 10955:2024.

The submitted sample was treated with below test conditions. After this treatment, treated food simulatant was examined by panels with regard to any divergence in smell and taste.

Test Item	Test Conditions	Grade Results	Recommend Level
		Sample 001	
Transfer of smell	Distilled water: boiling temperature, closed for 24 hours	1	<2.0
Transfer of taste	Distilled water: boiling temperature, closed for 24 hours	0	<2.0
Conclusion		Pass	-

Note:

- Explanation for grading are listed as below:
 - Grade 0 : No perceptible taste/smell deviation
 - Grade 1 : Just perceptible taste/smell deviation
 - Grade 2 : Weak taste/smell deviation
 - Grade 3 : Clear taste/smell deviation
 - Grade 4 : Strong taste/smell deviation

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3.9 Regulation (EC) No.1907/2006 (REACH) Annex XVII, Item 51 - Phthalates Content

Test with reference to in-house method, determination by GC-MS.

Parameter	CAS No.	Unit	MDL	Limit	Result(s)	
					002+003+007	004+005+006
Bis (2-ethylhexyl) phthalate, DEHP	117-81-7	%	0.005	-	ND	ND
Dibutyl phthalate, DBP	84-74-2	%	0.005	-	ND	ND
Benzyl butyl phthalate, BBP	85-68-7	%	0.005	-	ND	ND
Diisobutylphthalate, DIBP	84-69-5	%	0.005	-	ND	ND
Sum of DBP, BBP, DEHP, DIBP	-	%	0.005	0.1	ND	ND
Conclusion					Pass	Pass

Parameter	CAS No.	Unit	MDL	Limit	Result(s)	
					008+009+015	013
Bis (2-ethylhexyl) phthalate, DEHP	117-81-7	%	0.005	-	ND	ND
Dibutyl phthalate, DBP	84-74-2	%	0.005	-	ND	ND
Benzyl butyl phthalate, BBP	85-68-7	%	0.005	-	ND	ND
Diisobutylphthalate, DIBP	84-69-5	%	0.005	-	ND	ND
Sum of DBP, BBP, DEHP, DIBP	-	%	0.005	0.1	ND	ND
Conclusion					Pass	Pass

Parameter	CAS No.	Unit	MDL	Limit	Result(s)	
					014+019+020	016+017+018
Bis (2-ethylhexyl) phthalate, DEHP	117-81-7	%	0.005	-	ND	ND
Dibutyl phthalate, DBP	84-74-2	%	0.005	-	ND	ND
Benzyl butyl phthalate, BBP	85-68-7	%	0.005	-	ND	ND
Diisobutylphthalate, DIBP	84-69-5	%	0.005	-	ND	ND
Sum of DBP, BBP, DEHP, DIBP	-	%	0.005	0.1	ND	ND
Conclusion					Pass	Pass

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Parameter	CAS No.	Unit	MDL	Limit	Result(s)
					022+023
Bis (2-ethylhexyl) phthalate, DEHP	117-81-7	%	0.005	-	ND
Dibutyl phthalate, DBP	84-74-2	%	0.005	-	ND
Benzyl butyl phthalate, BBP	85-68-7	%	0.005	-	ND
Diisobutylphthalate, DIBP	84-69-5	%	0.005	-	ND
Sum of DBP, BBP, DEHP, DIBP	-	%	0.005	0.1	ND
Conclusion					Pass

Note: 1. MDL = Method Detection Limit
2. ND = Not Detected (<MDL)

3.10 Regulation (EC) No.1907/2006 (REACH) Annex XVII, Item 50 - Polycyclic Aromatic Hydrocarbons (PAHs)

Test with reference to AfPS GS 2019:01PAK, determination by GC-MS.

Parameter	CAS No.	Unit	MDL	Limit	Result(s)	
					002+003+007	004+005+006
Benzo[b]fluoranthene (BbFA)	205-99-2	mg/kg	0.1	1	ND	ND
Benzo[a]anthracene (BaA)	56-55-3	mg/kg	0.1	1	ND	ND
Benzo[a]pyrene (BaP)	50-32-8	mg/kg	0.1	1	ND	ND
Benzo[e]pyrene (BeP)	192-97-2	mg/kg	0.1	1	ND	ND
Benzo[j]fluoranthene (BjFA)	205-82-3	mg/kg	0.1	1	ND	ND
Benzo[k]fluoranthene (BkFA)	207-08-9	mg/kg	0.1	1	ND	ND
Chrysene (CHR)	218-01-9	mg/kg	0.1	1	ND	ND
Dibenzo[a,h]anthracene (DBAhA)	53-70-3	mg/kg	0.1	1	ND	ND
Conclusion					Pass	Pass

Parameter	CAS No.	Unit	MDL	Limit	Result(s)	
					008+009+015	013
Benzo[b]fluoranthene (BbFA)	205-99-2	mg/kg	0.1	1	ND	ND
Benzo[a]anthracene (BaA)	56-55-3	mg/kg	0.1	1	ND	ND

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Benzo[a]pyrene (BaP)	50-32-8	mg/kg	0.1	1	ND	ND
Benzo[e]pyrene (BeP)	192-97-2	mg/kg	0.1	1	ND	ND
Benzo[j]fluoranthene (BjFA)	205-82-3	mg/kg	0.1	1	ND	ND
Benzo[k]fluoranthene (BkFA)	207-08-9	mg/kg	0.1	1	ND	ND
Chrysene (CHR)	218-01-9	mg/kg	0.1	1	ND	ND
Dibenzo[a,h]anthracene (DBAhA)	53-70-3	mg/kg	0.1	1	ND	ND
Conclusion					Pass	Pass

Parameter	CAS No.	Unit	MDL	Limit	Result(s)	
					014+019+020	016+017+018
Benzo[b]fluoranthene (BbFA)	205-99-2	mg/kg	0.1	1	ND	ND
Benzo[a]anthracene (BaA)	56-55-3	mg/kg	0.1	1	ND	ND
Benzo[a]pyrene (BaP)	50-32-8	mg/kg	0.1	1	ND	ND
Benzo[e]pyrene (BeP)	192-97-2	mg/kg	0.1	1	ND	ND
Benzo[j]fluoranthene (BjFA)	205-82-3	mg/kg	0.1	1	ND	ND
Benzo[k]fluoranthene (BkFA)	207-08-9	mg/kg	0.1	1	ND	ND
Chrysene (CHR)	218-01-9	mg/kg	0.1	1	ND	ND
Dibenzo[a,h]anthracene (DBAhA)	53-70-3	mg/kg	0.1	1	ND	ND
Conclusion					Pass	Pass

Parameter	CAS No.	Unit	MDL	Limit	Result(s)
					022+023
Benzo[b]fluoranthene (BbFA)	205-99-2	mg/kg	0.1	1	ND
Benzo[a]anthracene (BaA)	56-55-3	mg/kg	0.1	1	ND
Benzo[a]pyrene (BaP)	50-32-8	mg/kg	0.1	1	ND
Benzo[e]pyrene (BeP)	192-97-2	mg/kg	0.1	1	ND
Benzo[j]fluoranthene (BjFA)	205-82-3	mg/kg	0.1	1	ND
Benzo[k]fluoranthene (BkFA)	207-08-9	mg/kg	0.1	1	ND
Chrysene (CHR)	218-01-9	mg/kg	0.1	1	ND
Dibenzo[a,h]anthracene	53-70-3	mg/kg	0.1	1	ND

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(DBAhA)					
Conclusion					Pass

Note: 1. MDL = Method Detection Limit
2. ND = Not Detected (<MDL)

3.11 US California Proposition 65 (Santa Clara Superior Court 115CV283507) - Phthalates Content

Test with reference to in-house method, determination by GC-MS.

Parameter	CAS No.	Unit	MDL	Limit	Result(s)	
					002+003+007	004+005+006
Bis (2-ethylhexyl) phthalate, (DEHP)	117-81-7	%	0.005	0.1	ND	ND
Dibutyl phthalate, (DBP)	84-74-2	%	0.005	0.1	ND	ND
Benzyl butyl phthalate, (BBP)	85-68-7	%	0.005	0.1	ND	ND
Di-isodecyl phthalate, (DIDP)	26761-40-0 /68515-49-1	%	0.005	0.1	ND	ND
Di-isononyl phthalate, (DINP)	28553-12-0 /68515-48-0	%	0.005	0.1	ND	ND
Di-n-hexyl phthalate (DHP)	84-75-3	%	0.005	0.1	ND	ND
Conclusion					Pass	Pass

Parameter	CAS No.	Unit	MDL	Limit	Result(s)	
					008+009+015	013
Bis (2-ethylhexyl) phthalate, (DEHP)	117-81-7	%	0.005	0.1	ND	ND
Dibutyl phthalate, (DBP)	84-74-2	%	0.005	0.1	ND	ND
Benzyl butyl phthalate, (BBP)	85-68-7	%	0.005	0.1	ND	ND
Di-isodecyl phthalate, (DIDP)	26761-40-0 /68515-49-1	%	0.005	0.1	ND	ND
Di-isononyl phthalate, (DINP)	28553-12-0 /68515-48-0	%	0.005	0.1	ND	ND
Di-n-hexyl phthalate (DHP)	84-75-3	%	0.005	0.1	ND	ND
Conclusion					Pass	Pass

Parameter	CAS No.	Unit	MDL	Limit	Result(s)
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					014+019+020	016+017+018
Bis (2-ethylhexyl) phthalate, (DEHP)	117-81-7	%	0.005	0.1	ND	ND
Dibutyl phthalate, (DBP)	84-74-2	%	0.005	0.1	ND	ND
Benzyl butyl phthalate, (BBP)	85-68-7	%	0.005	0.1	ND	ND
Di-isodecyl phthalate, (DIDP)	26761-40-0 /68515-49-1	%	0.005	0.1	ND	ND
Di-isononyl phthalate, (DINP)	28553-12-0 /68515-48-0	%	0.005	0.1	ND	ND
Di-n-hexyl phthalate (DHP)	84-75-3	%	0.005	0.1	ND	ND
Conclusion					Pass	Pass

Parameter	CAS No.	Unit	MDL	Limit	Result(s)
					022+023
Bis (2-ethylhexyl) phthalate, (DEHP)	117-81-7	%	0.005	0.1	ND
Dibutyl phthalate, (DBP)	84-74-2	%	0.005	0.1	ND
Benzyl butyl phthalate, (BBP)	85-68-7	%	0.005	0.1	ND
Di-isodecyl phthalate, (DIDP)	26761-40-0 /68515-49-1	%	0.005	0.1	ND
Di-isononyl phthalate, (DINP)	28553-12-0 /68515-48-0	%	0.005	0.1	ND
Di-n-hexyl phthalate (DHP)	84-75-3	%	0.005	0.1	ND
Conclusion					Pass

Note: 1. MDL = Method Detection Limit

2. ND = Not Detected (<MDL)

3.12 Canada Consumer Products Containing Lead Regulations (SOR/2018-83) -Total Lead Content

Test with reference to CPSC-CH-E1003-09.1:2011, CPSC-CH-E1001-08.3:2012 or CPSC-CH-E1002-08.3:2012, determination by ICP-OES.

Sample	Unit	MDL	Limit	Result(s)	Conclusion
002+003+007	mg/kg	10.0	90	ND	Pass
004+005+006	mg/kg	10.0	90	ND	Pass
008+009+015	mg/kg	10.0	90	ND	Pass
010	mg/kg	10.0	90	ND	Pass

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012	mg/kg	10.0	90	ND	Pass
013	mg/kg	10.0	90	ND	Pass
014+019+020	mg/kg	10.0	90	ND	Pass
016+017+018	mg/kg	10.0	90	ND	Pass
022+023	mg/kg	10.0	90	ND	Pass

Note: 1. MDL = Method Detection Limit
2. ND = Not Detected (<MDL)

3.13 Screening of 247 Substances of Very High Concern (SVHC) published by European Chemicals Agency (ECHA) based on Regulation (EC) No.1907/2006 (REACH)

Test method: Screening test. For organic substance(s) analysis, extracted by organic solvent, determination by LC-MS/MS, GC-MS, HPLC-DAD.

For heavy metal(s) analysis, digested by acid, determination by ICP-OES, AAS and UV-Vis.

Item No.	Tested Items	CAS No.	MDL [%]	Concentration [%]
				002+003+007+008+009+015+016+017+018
-	All tested SVHC in candidate list	-	0.010	ND

Item No.	Tested Items	CAS No.	MDL [%]	Concentration [%]
				004+005+006+013+014+019+020
-	All tested SVHC in candidate list	-	0.010	ND

Item No.	Tested Items	CAS No.	MDL [%]	Concentration [%]
				010+011+012+021
-	All tested SVHC in candidate list	-	0.010	ND

Item No.	Tested Items	CAS No.	MDL [%]	Concentration [%]
				022+023
-	All tested SVHC in candidate list	-	0.010	ND

Remark:

- The table above only shows detected SVHC, and SVHC that below MDL are not reported. Please refer to Appendix for the full list of tested SVHC.
- ** The substances are tested in terms of its respective elements and the test result is based on the calculation of selected elements/marker(s) and to the worst-case scenario. Calculated concentration of boric and arsenic compounds are based on the water extractive boron and arsenic. Due to the limit of the analytical technology available, any further investigation is not feasible. The client is strongly advised to review the chemical formulation to ascertain.
- ## The substances are UVCB(substance of unknown or variable composition, complex reaction products or

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biological materials), which are identified by its main constituents. Individual concentrations to the constituent of UVCB with an amount of <0.01% were not considered by the calculation of the sum. Calculation is based on the worst-case scenario. Due to the UVCB nature the reported values may be regarded as semi-quantitative.

4. [#] only applicable with $\geq 0.1\%$ of Michler's ketone (CAS No. 90-94-8) or Michler's base (CAS No. 101-61-1)
5. TGIC is a mixture and also contains β -TGIC. According to ECHA's technical dossier the ratio of β -TGIC to TGIC is around 1 to 10. Therefore β -TGIC is issued based on the above-mentioned ratio.
6. The analysis of **247** SVHC list are done by currently available test & screening techniques against the SVHC candidate list published by European Chemical Agency (ECHA).
Refer to <https://echa.europa.eu/et/candidate-list-table> for details.
7. In accordance with Regulation (EC) No 1907/2006, any producer or importer of substances, preparations and articles shall notify ECHA, in accordance with paragraph 4 of Article 7, if a substance meets the criteria in Article 57 and is identified in accordance with Article 59(1), if both the following conditions are met:
 - (a) The substance is present in those articles in quantities totalling over 1 tonne per producer or importer per year;
 - (b) The substance is present in those articles above a concentration of 0.1% weight by weight (w/w).
8. From 28 October 2008, EU & EEA suppliers whose goods contain substances on the Candidate List in a concentration above 0.1%(w/w) must provide sufficient information to their customers and on request to a consumer within 45 days of the receipt of this request. This information must ensure safe use of the article and, as a minimum, include the name of the substance.

Appendix

Item No.	Tested Items	CAS No.	Classification
1	Benzyl butyl phthalate (BBP)	85-68-7	Toxic for reproduction (article 57 c)
2	Bis (2-ethylhexyl) phthalate (DEHP)	117-81-7	Toxic for reproduction (article 57 c)
3	Dibutyl phthalate (DBP)	84-74-2	Toxic for reproduction (article 57 c)
4	4,4'-Diaminodiphenylmethane (MDA)	101-77-9	Carcinogenic (article 57 a)
5	5-tert-butyl-2,4,6-trinitro-m-xylene (musk xylene)	81-15-2	vPvB (article 57 e)
6	Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins)	85535-84-8	PBT and vPvB (articles 57 d and 57 e)
7	Cobalt Dichloride**	7646-79-9	Carcinogenic and toxic for reproduction (articles 57 a and 57 c)
8	Hexabromocyclododecane (HBCDD)	25637-99-4/ 3194-55-6	PBT (article 57 d)
9	Sodium dichromate, dihydrate**	7789-12-0/ 10588-01-9	Carcinogenic, mutagenic and toxic for reproduction (articles 57 a, 57 b and 57 c)
10	Anthracene	120-12-7	PBT (article 57 d)
11	Lead hydrogen arsenate**	7784-40-9	Carcinogenic and toxic for reproduction (articles 57 a and 57 c)
12	Bis(tributyltin)oxide (TBTO)**	56-35-9	PBT (article 57 d)
13	Diarsenic pentaoxide**	1303-28-2	Carcinogenic (article 57 a)
14	Diarsenic trioxide**	1327-53-3	Carcinogenic (article 57 a)
15	Triethyl arsenate**	15606-95-8	Carcinogenic (article 57 a)
16	2,4-Dinitrotoluene	121-14-2	Carcinogenic (article 57 a)
17	Anthracene oil ^{###}	90640-80-5	Carcinogenic, PBT and vPvB (articles 57 a, 57 d and 57 e)
18	Anthracene oil, anthracene paste, distn, lights ^{###}	91995-17-4	Carcinogenic, mutagenic, PBT and vPvB (articles 57 a, 57 b, 57 d and 57 e)

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19	Anthracene oil, anthracene paste, anthracene fraction ^{##}	91995-15-2	Carcinogenic, mutagenic, PBT and vPvB (articles 57 a, 57 b, 57 d and 57 e)
20	Anthracene oil, anthracene-low ^{##}	90640-82-7	Carcinogenic, mutagenic, PBT and vPvB (articles 57 a, 57 b, 57 d and 57 e)
21	Anthracene oil, anthracene paste ^{##}	90640-81-6	Carcinogenic, mutagenic, PBT and vPvB (articles 57 a, 57 b, 57d and 57 e)
22	Lead chromate ^{**}	7758-97-6	Carcinogenic and toxic for reproduction (articles 57 a and 57 c)
23	Lead chromate molybdate sulphate red (C.I. Pigment Red 104) ^{**}	12656-85-8	Carcinogenic and toxic for reproduction (articles 57 a and 57 c)
24	Lead sulfochromate yellow (C.I. Pigment Yellow 34) ^{**}	1344-37-2	Carcinogenic and toxic for reproduction (articles 57 a and 57 c)
25	Diisobutyl phthalate (DIBP)	84-69-5	Toxic for reproduction (article 57c)
26	Tris(2-chloroethyl)phosphate	115-96-8	Toxic for reproduction (article 57c)
27	Pitch, coal tar, high temp. ^{##}	65996-93-2	Carcinogenic, PBT and vPvB (articles 57a, 57d and 57e)
28	Acrylamide	79-06-1	Carcinogenic and mutagenic (articles 57 a and 57 b)
29	Trichloroethylene	79-01-6	Carcinogenic (article 57 a)
30	Boric acid ^{**}	10043-35-3/ 11113-50-1	Toxic for reproduction (article 57 c)
31	Disodium tetraborate, anhydrous ^{**}	1330-43-4/ 12179-04-3	Toxic for reproduction (article 57 c)
32	Tetraboron disodium heptaoxide, hydrate (calculate as decahydrate) ^{**}	12267-73-1	Toxic for reproduction (article 57 c)
33	Sodium chromate ^{**}	7775-11-3	Carcinogenic, mutagenic and toxic for reproduction (articles 57 a, 57 b and 57 c)
34	Potassium chromate ^{**}	7789-00-6	Carcinogenic and mutagenic (articles 57 a and 57 b)
35	Ammonium dichromate ^{**}	7789-09-5	Carcinogenic, mutagenic and toxic for reproduction (articles 57 a, 57 b and 57 c)
36	Potassium dichromate ^{**}	7778-50-9	Carcinogenic, mutagenic and toxic for reproduction (articles 57 a, 57 b and 57 c)
37	Cobalt(II) sulphate ^{**}	10124-43-3	Carcinogenic and toxic for reproduction (articles 57 a and 57 c)
38	Cobalt(II) dinitrate ^{**}	10141-05-6	Carcinogenic and toxic for reproduction (articles 57 a and 57 c)
39	Cobalt(II) carbonate ^{**}	513-79-1	Carcinogenic and toxic for reproduction (articles 57 a and 57 c)

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40	Cobalt(II) diacetate **	71-48-7	Carcinogenic and toxic for reproduction (articles 57 a and 57 c)
41	2-Methoxyethanol	109-86-4	Toxic for reproduction (article 57c)
42	2-Ethoxyethanol	110-80-5	Toxic for reproduction (article 57c)
43	Chromium trioxide**	1333-82-0	Carcinogenic and mutagenic (articles 57 a and 57 b)
44	Acids generated from chromium trioxide and their oligomers: a. Chromic acid** b. Dichromic acid ** c. Oligomers of chromic acid and dichromic acid **	7738-94-5/ 13530-68-2	Carcinogenic (article 57a)
45	2-Ethoxyethyl acetate (2-EEA)	111-15-9	Toxic for reproduction (article 57c)
46	Strontium chromate**	7789-06-2	Carcinogenic (article 57a)
47	1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters (DHNUP)	68515-42-4	Toxic for reproduction (article 57c)
48	Hydrazine	7803-57-8 302-01-2	Carcinogenic (article 57a)
49	1-Methyl-2-pyrrolidone	872-50-4	Toxic for reproduction (article 57c)
50	1,2,3-Trichloropropane	96-18-4	Carcinogenic and toxic for reproduction (articles 57 a and 57 c)
51	1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich (DIHP)	71888-89-6	Toxic for reproduction (article 57c)
52	1, 2-Dichloroethane	107-06-2	Carcinogenic (article 57 a)
53	2,2'-Dichloro-4,4'-methylenedianiline (MOCA)	101-14-4	Carcinogenic (article 57 a)
54	2-Methoxyaniline, o-Anisidine	90-04-0	Carcinogenic (article 57 a)
55	4-tert-Octylphenol	140-66-9	Equivalent level of concern having probable serious effects to the environment (article 57 f)
56	Aluminosilicate Refractory Ceramic Fibres are fibres covered by index number 650-017-00-8 in Annex VI, part 3, table 3.1 of Regulation (EC) No 1272/2008, and fulfil the three following conditions: a) oxides of aluminium and silicon are the main components present (in the fibres) within variable concentration ranges b) fibres have a length weighted geometric mean diameter less two standard geometric errors of 6 or less micrometres (µm) c) alkaline oxide and alkali earth oxide (Na ₂ O+K ₂ O+CaO+MgO+BaO) content less or equal to 18% by weight **	-	Carcinogenic (article 57a)
57	Arsenic acid **	7778-39-4	Carcinogenic (article 57 a)
58	Bis(2-methoxyethyl) ether	111-96-6	Toxic for reproduction (article 57 c)
59	Bis(2-methoxyethyl) phthalate	117-82-8	Toxic for reproduction (article 57 c)
60	Calcium arsenate**	7778-44-1	Carcinogenic (article 57 a)
61	Dichromium tris(chromate) **	24613-89-6	Carcinogenic (article 57 a)
62	Formaldehyde, oligomeric reaction products with aniline (technical MDA)	25214-70-4	Carcinogenic (article 57 a)
63	Lead diazide**	13424-46-9	Toxic for reproduction (article 57 c)
64	Lead dipicrate**	6477-64-1	Toxic for reproduction (article 57 c)
65	Lead styphnate **	15245-44-0	Toxic for reproduction (article 57 c)

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66	N,N-dimethylacetamide (DMAC)	127-19-5	Toxic for reproduction (article 57 c)
67	Pentazinc chromate octahydroxide**	49663-84-5	Carcinogenic (article 57 a)
68	Phenolphthalein	77-09-8	Carcinogenic (article 57 a)
69	Potassium hydroxyoctaoxodizincatedichromate**	11103-86-9	Carcinogenic (article 57 a)
70	Trilead diarsenate**	3687-31-8	Carcinogenic and toxic for reproduction (articles 57 a and 57 c)
71	Zirconia Aluminosilicate Refractory Ceramic Fibres are fibres covered by index number 650-017-00-8 in Annex VI, part 3, table 3.1 of Regulation (EC) No 1272/2008 , and fulfil the three following conditions: a) oxides of aluminium, silicon and zirconium are the main components present (in the fibres) within variable concentration ranges b) fibres have a length weighted geometric mean diameter less two standard geometric errors of 6 or less micrometres (µm). c) alkaline oxide and alkali earth oxide (Na ₂ O+K ₂ O+CaO+MgO+BaO) content less or equal to 18% by weight **	-	Carcinogenic (article 57 a)
72	1,2-bis(2-methoxyethoxy)ethane (TEGDME; triglyme)	112-49-2	Toxic for reproduction (Article 57 c)
73	1,2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME)	110-71-4	Toxic for reproduction (Article 57 c)
74	4,4'-bis(dimethylamino)-4''-(methylamino)trityl alcohol #	561-41-1	Carcinogenic (Article 57a)
75	4,4'-bis(dimethylamino)benzophenone (Michler's ketone)	90-94-8	Carcinogenic (Article 57 a)
76	4-[4,4'-bis(dimethylamino)benzhydrylidene] cyclohexa-2,5-dien-1-ylidene]dimethylammonium chloride(C.I. Basic Violet 3)#	548-62-9	Carcinogenic (Article 57a)
77	[4-[4,4'-bis(dimethylamino) benzhydrylidene]cyclohexa-2,5-dien-1-ylidene]dimethylammonium chloride (C.I. Basic Violet 3) #	2580-56-5	Carcinogenic (Article 57a)
78	Diboron trioxide	1303-86-2	Toxic for reproduction (Article 57 c)
79	Lead(II) bis(methanesulfonate)**	17570-76-2	Toxic for reproduction (Article 57 c)
80	Formamide	75-12-7	Toxic for reproduction (Article 57 c)
81	N,N,N',N'-tetramethyl-4,4'-methylenedianiline (Michler's base)	101-61-1	Carcinogenic (Article 57a)
82	1,3,5-Tris(oxiran-2-ylmethyl)-1,3,5-triazinane-2,4,6-trione (TGIC)	2451-62-9	Mutagenic (Article 57b)
83	α,α-Bis[4-(dimethylamino)phenyl]-4 (phenylamino)naphthalene-1-methanol (C.I. Solvent Blue 4)#	6786-83-0	Carcinogenic (Article 57a)
84	β-TGIC(1,3,5-tris[(2S and 2R)-2,3-epoxypropyl] 1,3,5-triazine-2,4,6-(1H,3H,5H)-trione)	59653-74-6	Mutagenic (Article 57b)
85	Bis(pentabromophenyl) ether (DecaBDE)	1163-19-5	PBT (Article 57 d); vPvB (Article 57 e)
86	Pentacosafuorotridecanoic acid	72629-94-8	PBT (Article 57 d); vPvB (Article 57 e)
87	Tricosafuorododecanoic acid	307-55-1	vPvB (Article 57 e)
88	Henicosafuoroundecanoic acid	2058-94-8	vPvB (Article 57 e)
89	Heptacosafuorotetradecanoic acid	376-06-7	vPvB (Article 57 e)

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90	4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated-covering well-defined substances and UVCB substances, polymers and homologue	-	Equivalent level of concern – probable serious effects on the environment (Article 57 f)
91	4-Nonylphenol, branched and linear -substances with a linear and/or branched alkyl chain with a carbon number of 9 covalently bound in position 4 to phenol, covering also UVCB- and well-defined substances which include any of the individual isomers or a combination thereof	-	Equivalent level of concern – probable serious effects on the environment (Article 57 f)
92	Diazeno-1,2-dicarboxamide (C,C'-azodi(formamide))	123-77-3	Equivalent level of concern – probable serious effects on human health (Article 57 f)
93	Cyclohexane-1,2-dicarboxylic anhydride (Hexahydrophthalic anhydride - HHPA)	85-42-7	Equivalent level of concern – probable serious effects on human health (Article 57 f)
94	Hexahydromethylphthalic anhydride, Hexahydro-4-methylphthalic anhydride, Hexahydro-1-methylphthalic anhydride, Hexahydro-3-methylphthalic anhydride	25550-51-0 19438-60-9 48122-14-1 57110-29-9	Equivalent level of concern – probable serious effects on human health (Article 57 f)
95	Methoxy acetic acid	625-45-6	Toxic for reproduction (Article 57 c); equivalent level of concern - probable serious effects on human health and the environment (Article 57 f)
96	1,2-Benzenedicarboxylic acid, dipentylester, branched and linear	84777-06-0	Toxic for reproduction (Article 57 c)
97	Diisopentylphthalate (DIPP)	605-50-5	Toxic for reproduction (Article 57 c)
98	N-pentyl-isopentylphthalate	-	Toxic for reproduction (Article 57 c)
99	1,2-Diethoxyethane	629-14-1	Toxic for reproduction (Article 57 c)
100	N,N-dimethylformamide	68-12-2	Toxic for reproduction (Article 57 c)
101	Dibutyltin dichloride (DBT)	683-18-1	Toxic for reproduction (Article 57 c)
102	Acetic acid, lead salt, basic**	51404-69-4	Toxic for reproduction (Article 57 c)
103	Basic lead carbonate (trilead bis(carbonate)dihydroxide)**	1319-46-6	Toxic for reproduction (Article 57 c)
104	Lead oxide sulfate (basic lead sulfate)**	12036-76-9	Toxic for reproduction (Article 57 c)
105	[Phthalato(2-)]dioxotrilead (dibasic lead phthalate)**	69011-06-9	Toxic for reproduction (Article 57 c)
106	Dioxobis(stearato)trilead**	12578-12-0	Toxic for reproduction (Article 57 c)
107	Fatty acids, C16-18, lead salts**	91031-62-8	Toxic for reproduction (Article 57 c)
108	Lead bis(tetrafluoroborate)**	13814-96-5	Toxic for reproduction (Article 57 c)
109	Lead cyanamate**	20837-86-9	Toxic for reproduction (Article 57 c)
110	Lead dinitrate**	10099-74-8	Toxic for reproduction (Article 57 c)
111	Lead oxide (lead monoxide)**	1317-36-8	Toxic for reproduction (Article 57 c)
112	Lead tetroxide (orange lead)**	1314-41-6	Toxic for reproduction (Article 57 c)
113	Lead titanium trioxide**	12060-00-3	Toxic for reproduction (Article 57 c)
114	Lead Titanium Zirconium Oxide**	12626-81-2	Toxic for reproduction (Article 57 c)
115	Pentalead tetraoxide sulphate**	12065-90-6	Toxic for reproduction (Article 57 c)
116	Pyrochlore,antimony lead yellow**	8012-00-8	Toxic for reproduction (Article 57 c)
117	Silicic acid, barium salt, lead-doped**	68784-75-8	Toxic for reproduction (Article 57 c)
118	Silicic acid, lead salt**	11120-22-2	Toxic for reproduction (Article 57 c)
119	Sulfurous acid, lead salt, dibasic**	62229-08-7	Toxic for reproduction (Article 57 c)
120	Tetraethyllead**	78-00-2	Toxic for reproduction (Article 57 c)
121	Tetralead trioxide sulphate**	12202-17-4	Toxic for reproduction (Article 57 c)

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122	Trilead dioxide phosphonate**	12141-20-7	Toxic for reproduction (Article 57 c)
123	Furan	110-00-9	Carcinogenic (Article 57a)
124	Propylene oxide; 1,2-epoxypropane; methyloxirane	75-56-9	Carcinogenic (Article 57 a); Mutagenic (Article 57 b)
125	Diethyl sulphate	64-67-5	Carcinogenic (Article 57 a); Mutagenic (Article 57 b)
126	Dimethyl sulphate	77-78-1	Carcinogenic (Article 57 a)
127	3-ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine	143860-04-2	Toxic for reproduction (Article 57 c)
128	Dinoseb	88-85-7	Toxic for reproduction (Article 57 c)
129	4,4'-methylenedi-o-toluidine	838-88-0	Carcinogenic (Article 57 a)
130	4,4'-oxydianiline and its salts	101-80-4	Carcinogenic (Article 57 a); Mutagenic (Article 57 b)
131	4-Aminoazobenzene	60-09-3	Carcinogenic (Article 57 a)
132	4-methyl-m-phenylenediamine	95-80-7	Carcinogenic (Article 57 a)
133	6-methoxy-m-toluidine	120-71-8	Carcinogenic (Article 57 a)
134	Biphenyl-4-ylamine	92-67-1	Carcinogenic (Article 57 a)
135	o-aminoazotoluene	97-56-3	Carcinogenic (Article 57 a)
136	o-Toluidine	95-53-4	Carcinogenic (Article 57 a)
137	N-methylacetamide	79-16-3	Toxic for reproduction (Article 57 c)
138	1-bromopropane; n-propyl bromide	106-94-5	Toxic for reproduction (Article 57 c)
139	Cadmium**	7440-43-9	Carcinogenic (Article 57a); Equivalent level of concern having probable serious effects to human health (Article 57 f)
140	Cadmium oxide**	1306-19-0	Carcinogenic (Article 57a); Equivalent level of concern having probable serious effects to human health (Article 57 f)
141	Dipentyl phthalate (DPP)	131-18-0	Toxic for reproduction (Article 57 c)
142	4-Nonylphenol, branched and linear, ethoxylated [substances with a linear and/or branched alkyl chain with a carbon number of 9 covalently bound in position 4 to phenol, ethoxylated covering UVCB- and well-defined substances, polymers and homologues, which include any of the individual isomers and/or combinations thereof]	-	Equivalent level of concern having probable serious effects to the environment (due to the endocrine disrupting properties of the degradation products) (Article 57 f)
143	Ammonium pentadecafluorooctanoate	3825-26-1	Toxic for reproduction (Article 57 c); PBT (Article 57 d)
144	Pentadecafluorooctanoic acid (PFOA)	335-67-1	Toxic for reproduction (Article 57 c); PBT (Article 57 d)
145	Cadmium sulphide**	1306-23-6	Carcinogenic (Article 57a); Equivalent level of concern having probable serious effects to human health (Article 57 f)
146	Disodium 3,3'-[[1,1'-biphenyl]-4,4'-diylbis(azo)]bis(4-aminonaphthalene-1-sulphonate)(C.I.Direct Red 28)	573-58-0	Carcinogenic (Article 57a)
147	Disodium 4-amino-3-[[4'-[(2,4-diaminophenyl)azo]]1,1'-biphenyl]-4-yl]azo]-5-hydroxy-6-(phenylazo)naphthalene-2,7-disulphonate(C.I.Direct Black 38)	1937-37-7	Carcinogenic (Article 57a)
148	Dihexyl phthalate	84-75-3	Toxic for reproduction (Article 57 c)
149	Imidazolidine-2-thione (2-imidazoline-2-thiol)	96-45-7	Toxic for reproduction (Article 57 c)
150	Lead di(acetate) **	301-04-2	Toxic for reproduction (Article 57 c)

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151	Trixylyl phosphate	25155-23-1	Toxic for reproduction (Article 57 c)
152	1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear	68515-50-4	Toxic for reproduction (Article 57 c)
153	Cadmium chloride**	10108-64-2	Carcinogenic (Article 57a); Mutagenic (Article 57(b); Toxic for Reproduction (Article 57(c); Equivalent level of concern having probable serious effects to human health (Article 57 f)
154	Sodium perborate; perboric acid, sodium salt	-	Toxic for reproduction (Article 57 c)
155	Sodium peroxometaborate	7632-04-4	Toxic for reproduction (Article 57 c)
156	Cadmium fluoride**	7790-79-6	Carcinogenic (Article 57 a); Mutagenic (Article 57 b); Toxic for reproduction (Article 57 c); Equivalent level of concern having probable serious effects to human health (Article 57 f)
157	Cadmium sulphate**	10124-36-4; 31119-53-6	Carcinogenic (Article 57 a); Mutagenic (Article 57 b); Toxic for reproduction (Article 57 c); Equivalent level of concern having probable serious effects to human health (Article 57 f)
158	2-benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320)	3846-71-7	PBT (Article 57 d); vPvB (Article 57 e)
159	2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	25973-55-1	PBT (Article 57 d); vPvB (Article 57 e)
160	2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (DOTE)	15571-58-1	Toxic for reproduction (Article 57 c)
161	reaction mass of 2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate and 2-ethylhexyl 10-ethyl-4-[[2-[(2-ethylhexyl)oxy]-2-oxoethyl]thio]-4-octyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (reaction mass of DOTE and MOTE)	-	Toxic for reproduction (Article 57 c)
162	1,2-benzenedicarboxylic acid, di-C6-10-alkyl esters; 1,2-benzenedicarboxylic acid, mixed decyl and hexyl and octyl diesters with ≥ 0.3% of dihexyl phthalate (EC No. 201-559-5)	68515-51-5, 68648-93-1 (271-094-0, 272-013-1)	Toxic for reproduction (Article 57 c)
163	5-sec-butyl-2-(2,4-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane [1], 5-sec-butyl-2-(4,6-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane [2] [covering any of the individual isomers of [1] and [2] or any combination thereof]	-	vPvB (Article 57 e)
164	1,3-propanesultone	1120-71-4	Carcinogenic (Article 57 a)
165	2,4-di-tert-butyl-6-(5-chlorobenzotriazol-2-yl)phenol (UV-327)	3864-99-1	vPvB (Article 57 e)
166	2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl)phenol (UV-350)	36437-37-3	vPvB (Article 57 e)
167	Nitrobenzene	98-95-3	Toxic for reproduction (Article 57 c)

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168	Perfluorononan-1-oic acid (2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9-heptadecafluorononanoic acid and its sodium and ammonium salts)	375-95-1; 21049-39-8; 4149-60-4	Toxic for reproduction (Article 57 c); PBT (Article 57 d)
169	Benzo[a]pyrene	50-32-8	Carcinogenic (Article 57a) Mutagenic (Article 57b) Toxic for reproduction (Article 57c) PBT (Article 57d) vPvB (Article 57e)
170	4,4'-isopropylidenediphenol (Bisphenol A, BPA)	80-05-7	Toxic for reproduction (Article 57c) Endocrine disrupting properties (Article 57(f) - environment) Endocrine disrupting properties (Article 57(f) - human health)
171	Nonadecafluorodecanoic acid (PFDA) and its sodium and ammonium salts	335-76-2, 3830-45-3, 3108-42-7	Toxic for reproduction (Article 57 c); PBT (Article 57 d)
172	p-(1,1-dimethylpropyl)phenol (pentyphenol, PTAP)	80-46-6	Equivalent level of concern having probable serious effects to the environment (Article 57 f)
173	4-Heptylphenol, branched and linear [substances with a linear and/or branched alkyl chain with a carbon number of 7 covalently bound predominantly in position 4 to phenol, covering also UVCB-and well-defined substances which include any of the individual isomers or a combination thereof]	-	Equivalent level of concern having probable serious effects to the environment (Article 57 f)
174	Perfluorohexane-1-sulphonic acid and its salts (PFHxS)	355-46-4	vPvB (Article 57e)
175	Benz[a]anthracene	56-55-3	Carcinogenic (Article 57a) PBT (Article 57d) vPvB (Article 57e)
176	Cadmium carbonate**	513-78-0	Carcinogenic (Article 57a) Mutagenic (Article 57b) Specific target organ toxicity after repeated exposure (Article 57(f) - human health)
177	Cadmium hydroxide**	21041-95-2	Carcinogenic (Article 57a) Mutagenic (Article 57b) Specific target organ toxicity after repeated exposure (Article 57(f) - human health)
178	Cadmium nitrate**	10325-94-7	Carcinogenic (Article 57a) Mutagenic (Article 57b) Specific target organ toxicity after repeated exposure (Article 57(f) - human health)
179	Chrysene	218-01-9	Carcinogenic (Article 57a) PBT (Article 57d) vPvB (Article 57e)

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180	1,6,7,8,9,14,15,16,17,17,18,18-Dodecachloropentacyclo [12.2.1.16,9.02,13.05,10]octadeca-7,15-diene ("Dechlorane Plus"™) [covering any of its individual anti- and syn-isomers or any combination thereof]	-	vPvB (Article 57e)
181	Reaction products of 1,3,4-thiadiazolidine-2,5-dithione, formaldehyde and 4-heptylphenol, branched and linear (RP-HP) [with ≥0.1% w/w 4-heptylphenol, branched and linear]	-	Endocrine disrupting properties (Article 57(f) - environment)
182	Benzene-1,2,4-tricarboxylic acid 1,2-anhydride (trimellitic anhydride) (TMA)	552-30-7	Respiratory sensitising properties (Article 57(f)) – human health
183	Dicyclohexyl phthalate (DCHP)	84-61-7	Toxic for reproduction (Article 57(c)); endocrine disrupting properties (Article 57(f) - human health)
184	Octamethylcyclotetrasiloxane (D4)	556-67-2	PBT (Article 57d) vPvB (Article 57e)
185	Decamethylcyclopentasiloxane (D5)	541-02-6	PBT (Article 57d) vPvB (Article 57e)
186	Dodecamethylcyclohexasiloxane (D6)	540-97-6	PBT (Article 57d) vPvB (Article 57e)
187	Lead	7439-92-1	Toxic for reproduction (Article 57c)
188	Disodium octaborate**	12008-41-2	Toxic for reproduction (Article 57c)
189	Benzo[ghi]perylene	191-24-2	PBT (Article 57d) vPvB (Article 57e)
190	Terphenyl hydrogenated	61788-32-7	vPvB (Article 57e)
191	Ethylenediamine (EDA)	107-15-3	Respiratory sensitising properties (Article 57(f) - human health)
192	2,2-bis(4'-hydroxyphenyl)-4-methylpentane	6807-17-6	Toxic for reproduction (Article 57c)
193	1,7,7-trimethyl-3-(phenylmethylene)bicyclo[2.2.1]heptan-2-one (3-benzylidene camphor)	15087-24-8	Endocrine disrupting properties (Article 57(f) - environment)
194	Benzo[k]fluoranthene	207-08-9	Carcinogenic (Article 57a); PBT (Article 57d); vPvB (Article 57e)
195	Fluoranthene	206-44-0	PBT (Article 57d); vPvB (Article 57e)
196	Phenanthrene	85-01-8	vPvB (Article 57e)
197	Pyrene	129-00-0	PBT (Article 57d); vPvB (Article 57e)
198	2,3,3,3-tetrafluoro-2-(heptafluoropropoxy)propionic acid, its salts and its acyl halides (covering any of their individual isomers and combinations thereof)	-	Equivalent level of concern having probable serious effects to the environment (Article 57(f) - environment) Equivalent level of concern having probable serious effects to human health (Article 57(f) – human health)
199	2-methoxyethyl acetate	110-49-6	Toxic for reproduction (Article 57(c))
200	Tris(4-nonylphenyl, branched and linear) phosphite (TNPP)	-	Endocrine disrupting properties (Article 57(f) – environment)

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201	4-tert-butylphenol (PTBP)	98-54-4	Endocrine disrupting properties (Article 57(f) – environment)
202	Diisohexyl phthalate	71850-09-4	Toxic for reproduction (Article 57c)
203	2-benzyl-2-dimethylamino-4'-morpholinobutyrophenone	119313-12-1	Toxic for reproduction (Article 57c)
204	2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one	71868-10-5	Toxic for reproduction (Article 57c)
205	Perfluorobutane sulfonic acid (PFBS) and its salts	-	Equivalent level of concern having probable serious effects on the environment (Article 57f) Equivalent level of concern having probable serious effects on human health (Article 57f)
206	1-vinylimidazole	1072-63-5	Toxic for reproduction (Article 57c)
207	2-methylimidazole	693-98-1	Toxic for reproduction (Article 57c)
208	Butyl 4-hydroxybenzoate	94-26-8	Endocrine disrupting properties (Article 57(f) – human health)
209	Dibutylbis(pentane-2,4-dionato-O,O')tin	22673-19-4	Toxic for reproduction (Article 57c)
210	Bis(2-(2-methoxyethoxy)ethyl) ether	143-24-8	Toxic for reproduction (Article 57c)
211	Dioctyltin dilaurate, stannane, dioctyl-, bis(coco acyloxy) derivs., and any other stannane, dioctyl-, bis(fatty acyloxy) derivs. wherein C12 is the predominant carbon number of the fatty acyloxy moiety	-	Toxic for reproduction (Article 57c)
212	1,4-dioxane	123-91-1	Carcinogenic (Article 57a) Equivalent level of concern having probable serious effects on the environment (Article 57f) Equivalent level of concern having probable serious effects on human health (Article 57f)
213	2,2-bis(bromomethyl)propane, 1,3-diol (BMP), 2,2-dimethylpropan-1-ol, tribromo derivative/3-bromo-2,2-bis(bromomethyl)-1-propanol (TBNPA), 2,3-dibromo-1-propanol (2,3-DBPA)	3296-90-0, 36483-57-5/ 1522-92-5, 96-13-9	Carcinogenic (Article 57a)
214	2-(4-tert-butylbenzyl) propionaldehyde and its individual stereoisomers	-	Toxic for reproduction (Article 57c)
215	4,4'-(1-methylpropylidene) bisphenol; (bisphenol B)	77-40-7	Endocrine disrupting properties (Article 57(f) - environment AND human health)
216	Glutaral	111-30-8	Respiratory sensitising properties (Article 57(f) - human health)
217	Medium-chain chlorinated paraffins (MCCP) [UVCB substances consisting of more than or equal to 80% linear chloroalkanes with carbon chain lengths within the range from C14 to C17]	-	PBT (Article 57d) vPvB (Article 57e)
218	Orthoboric acid, sodium salt	13840-56-7	Toxic for reproduction (Article 57c)
219	Phenol, alkylation products (mainly in para position) with C12-rich branched or linear alkyl chains from oligomerisation, covering any individual isomers and/ or combinations thereof (PDDP)	-	Toxic for reproduction (Article 57c) Endocrine disrupting properties (Article 57(f) – human health) Endocrine disrupting properties (Article 57(f) – environment)

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220	(±)-1,7,7-trimethyl-3-[(4-methylphenyl)methylene]bicyclo[2.2.1]heptan-2-one covering any of the individual isomers and/or combinations thereof (4-MBC)	-	Endocrine disrupting properties (Article 57(f) - human health)
221	Endocrine disrupting properties (Article 57(f) - human health)	119-47-1	Toxic for reproduction (Article 57c)
222	S-(tricyclo[5.2.1.0'2,6]deca-3-en-8(or 9)-yl) O-(isopropyl or isobutyl or 2-ethylhexyl) O-(isopropyl or isobutyl or 2-ethylhexyl) phosphorodithioate	255881-94-8	PBT (Article 57 d)
223	Tris(2-methoxyethoxy)vinylsilane	1067-53-4	Toxic for reproduction (Article 57c)
224	N-(hydroxymethyl)acrylamide	924-42-5	Carcinogenic (Article 57a) Mutagenic (Article 57b)
225	1,1'-[ethane-1,2-diylbis(oxy)]bis[2,4,6-tribromobenzene] (BTBPE)	37853-59-1	vPvB (Article 57e)
226	2,2',6,6'-tetrabromo-4,4'-isopropylidenediphenol (TBBPA)	79-94-7	Carcinogenic (Article 57a)
227	4,4'-sulphonyldiphenol (BPS)	80-09-1	Toxic for reproduction (Article 57c); Endocrine disrupting properties (Article 57(f) – environment); Endocrine disrupting properties (Article 57(f) – human health)
228	Barium diboron tetraoxide	13701-59-2	Toxic for reproduction (Article 57c)
229	Bis(2-ethylhexyl) tetrabromophthalate covering any of the individual isomers and/or combinations thereof (TBPH)	-	vPvB (Article 57e)
230	Isobutyl 4-hydroxybenzoate	4247-02-3	Endocrine disrupting properties (Article 57(f) – human health)
231	Melamine	108-78-1	Equivalent level of concern having probable serious effects to human health (Article 57(f) - human health); Equivalent level of concern having probable serious effects to the environment (Article 57(f) - environment)
232	Perfluoroheptanoic acid (PFHpA) and its salts	-	Toxic for reproduction (Article 57c); PBT (Article 57d); vPvB (Article 57e); Equivalent level of concern having probable serious effects to human health (Article 57(f) - human health); Equivalent level of concern having probable serious effects to the environment (Article 57(f) - environment)
233	Reaction mass of 2,2,3,3,5,5,6,6-octafluoro-4-(1,1,1,2,3,3,3-heptafluoropropan-2-yl)morpholine and 2,2,3,3,5,5,6,6-octafluoro-4-(heptafluoropropyl)morpholine	-	vPvB (Article 57e)
234	Bis(4-chlorophenyl) sulphone (BCPS)	80-07-9	vPvB (Article 57e)

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235	Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide	75980-60-8	Toxic for reproduction (Article 57c)
236	2,4,6-tri-tert-butylphenol (2,4,6-TTBP)	732-26-3	Toxic for reproduction (Article 57c); PBT (Article 57d);
237	2-(2H-benzotriazol-2-yl)-4-(1,1,3,3-tetramethylbutyl)phenol	3147-75-9	vPvB (Article 57e)
238	2-(dimethylamino)-2-[(4-methylphenyl)methyl]-1-[4-(morpholin-4-yl)phenyl]butan-1-one	119344-86-4	Toxic for reproduction (Article 57c)
239	Bumetizole (UV-326)	3896-11-5	vPvB (Article 57e)
240	Oligomerisation and alkylation reaction products of 2-phenylpropene and phenol (OAPP)	-	vPvB (Article 57e)
241	Bis(α,α-dimethylbenzyl) peroxide	80-43-3	Toxic for reproduction (Article 57c)
242	Triphenyl phosphate	115-86-6	Endocrine disrupting properties (Article 57(f) - environment)
243	6-[(C10-C13)-alkyl-(branched, unsaturated)-2,5-dioxopyrrolidin-1-yl]hexanoic acid	2156592-54-8	Toxic for reproduction (Article 57c)
244	O,O,O-triphenyl phosphorothioate	597-82-0	PBT (Article 57d)
245	Octamethyltrisiloxane	107-51-7	vPvB (Article 57e)
246	Perfluamine	338-83-0	vPvB (Article 57e)
247	reaction mass of: triphenylthiophosphate and tertiary butylated phenyl derivatives	192268-65-8	PBT (Article 57d)

3.14. Regulation (EC) No.1907/2006 (REACH) Annex XVII, Item 63 - Total Lead Content

Test with reference to CPSC-CH-E1003-09.1:2011, CPSC-CH-E1001-08.3:2012 or CPSC-CH-E1002-08.3:2012, determination by ICP-OES.

Sample	Unit	MDL	Limit	Result(s)	Conclusion
002+003+007	mg/kg	10.0	500	ND	Pass
004+005+006	mg/kg	10.0	500	ND	Pass
008+009+015	mg/kg	10.0	500	ND	Pass
010	mg/kg	10.0	500	ND	Pass
012	mg/kg	10.0	500	ND	Pass
013	mg/kg	10.0	500	ND	Pass
014+019+020	mg/kg	10.0	500	ND	Pass
016+017+018	mg/kg	10.0	500	ND	Pass
022+023	mg/kg	10.0	500	ND	Pass

Note: 1. MDL = Method Detection Limit
2. ND = Not Detected (<MDL)

3.15 Regulation (EC) No.1907/2006 (REACH) Annex XVII, Item 23 - Cadmium Content

Test with reference to EPA 3052:1996 microwave digestion or acid digestion, determination by ICP-OES.

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Sample	Unit	MDL	Limit	Result(s)	Conclusion
002+003+007	mg/kg	10.0	100	ND	Pass
004+005+006	mg/kg	10.0	100	ND	Pass
008+009+015	mg/kg	10.0	100	ND	Pass
013	mg/kg	10.0	100	ND	Pass
014+019+020	mg/kg	10.0	100	ND	Pass
016+017+018	mg/kg	10.0	100	ND	Pass
022+023	mg/kg	10.0	1000	ND	Pass

3.16. US California Proposition 65 (Settlement Agreement Ref. 2016-00578) - Lead Content

Test with reference to CPSC-CH-E1003-09.1:2011, CPSC-CH-E1001-08.3:2012 or CPSC-CH-E1002-08.3:2012, determination by ICP-OES.

Sample	Unit	MDL	Limit	Result(s)	Conclusion
002+003+007	mg/kg	10.0	90	ND	Pass
004+005+006	mg/kg	10.0	90	ND	Pass
008+009+015	mg/kg	10.0	90	ND	Pass
010	mg/kg	10.0	90	ND	Pass
012	mg/kg	10.0	90	ND	Pass
013	mg/kg	10.0	90	ND	Pass
014+019+020	mg/kg	10.0	90	ND	Pass
016+017+018	mg/kg	10.0	90	ND	Pass
022+023	mg/kg	10.0	90	ND	Pass

Note: 1. MDL = Method Detection Limit
2. ND = Not Detected (<MDL)

3.17. US California Proposition 65 (Settlement Agreement Ref. 2016-01270) - Total Bisphenol A Content

Test method: With reference to in house method followed by LC-MSMS analysis.

[Reporting Limit: 0.1 mg/kg]

Parameter	CAS No.	Unit	MDL	Limit	Result(s)	
					002	003
Bisphenol A	80-05-7	mg/kg	0.1	ND(<0.1)	ND	ND
Conclusion					Pass	Pass

Parameter	CAS No.	Unit	MDL	Limit	Result(s)	
					004	005
Bisphenol A	80-05-7	mg/kg	0.1	ND(<0.1)	ND	ND

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Test Report No.: 68.431.25.1648.01B

Dated: 2025-04-24



Conclusion	Pass	Pass
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Parameter	CAS No.	Unit	MDL	Limit	Result(s)	
					006	007
Bisphenol A	80-05-7	mg/kg	0.1	ND(<0.1)	ND	ND
Conclusion					Pass	Pass

Parameter	CAS No.	Unit	MDL	Limit	Result(s)	
					008	009
Bisphenol A	80-05-7	mg/kg	0.1	ND(<0.1)	ND	ND
Conclusion					Pass	Pass

Parameter	CAS No.	Unit	MDL	Limit	Result(s)	
					013	014
Bisphenol A	80-05-7	mg/kg	0.1	ND(<0.1)	ND	ND
Conclusion					Pass	Pass

Parameter	CAS No.	Unit	MDL	Limit	Result(s)	
					015	016
Bisphenol A	80-05-7	mg/kg	0.1	ND(<0.1)	ND	ND
Conclusion					Pass	Pass

Parameter	CAS No.	Unit	MDL	Limit	Result(s)	
					017	018
Bisphenol A	80-05-7	mg/kg	0.1	ND(<0.1)	ND	ND
Conclusion					Pass	Pass

Parameter	CAS No.	Unit	MDL	Limit	Result(s)	
					019	020
Bisphenol A	80-05-7	mg/kg	0.1	ND(<0.1)	ND	ND
Conclusion					Pass	Pass

Parameter	CAS No.	Unit	MDL	Limit	Result(s)	
					022	023
Bisphenol A	80-05-7	mg/kg	0.1	ND(<0.1)	ND	ND

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Conclusion	Pass	Pass
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Note: 1. MDL = Method Detection Limit
2. ND = Not Detected (<MDL)

-- END OF TEST REPORT--

