B.BOX FOR KIDS P/L

UNIT 5,677 SPRINGVALE ROAD,MULGRAVE VIC 3170

The following sample(s) was/were submitted and identified on behalf of the clients as : Insulated Drink Bottle,Insulated food jar and Tritan drink bottle

SGS Job No. :	GZHL2108036353CW - GZ
Buyer :	B.BOX FOR KIDS P/L
Country of Origin :	CHINA
Country of Destination :	AUSTRALIA,EU,USA
Date of Sample Received :	28 Aug 2021
Testing Period :	28 Aug 2021 - 23 Sep 2021
Test Requested :	Selected test(s) as requested by client.
Test Method :	Please refer to next page(s).
Test Results :	Please refer to next page(s).

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Result Summary :

Test Requested	Conclusion
FDA 21 CFR 177.1210–Chloroform-soluble extractive residues	PASS
FDA 21 CFR 177.2600–Total extractive residues	PASS
Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004, Council of Europe Resolution AP (2004) 5 – Overall migration	PASS
Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004–Sensorial examination odour and taste test	PASS
Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004,(EU) No 10/2011 and its amendment (EU) 2020/1245 Regulation-Specific migration of 2,2,4,4-Tetramethyl-1,3-cyclobutanediol(TMCD)	PASS
Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004,(EU) No 10/2011 and its amendment (EU) 2020/1245 Regulation-Specific migration of primary aromatic amine (total)	PASS
Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004,(EU) No 10/2011 and its amendment (EU) 2020/1245 Regulation– Overall migration	PASS
Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004, (EU) No 10/2011 and its amendment (EU) 2020/1245 Regulation –Specific Migration of Heavy Metal	PASS
US FDA Generally Recognized As Safe (GRAS) Specifications in stainless steel-Total Chromium content	PASS
Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004–Volatile organic matter (VOM)	PASS
Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004,Commission Regulation (EU) 2018/213 of 12 February 2018 amending Regulation (EU) No 10/2011-Total Content of Bisphenol A	PASS
FDA 21 CFR 177.1520–Maximum soluble fraction in xylene	PASS
Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004,Council of Europe Resolution CM/Res(2013)9–Extractable heavy metal	PASS

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Signed for and on behalf of
SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch

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Ivy Ren
Approved Signatory

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Test Results :

Test Part Description :

Specimen No.	SGS Sample ID	Description	Material (claimed by the client)
SN1	CAN21-161487.001	Lt-blue & caesious plastic lid	PP
SN2	CAN21-161487.002	Lanthinnus & pink plastic lid	PP
SN3	CAN21-161487.003	Mauve & orange plastic lid	PP
SN4	CAN21-161487.004	Dk-purple & fluorescent green plastic lid(semi-product)	PP
SN5	CAN21-161487.005	Purple & lt-cyan plastic lid	PP
SN6	CAN21-161487.006	Blue plastic lid(semi-product)	PP
SN7	CAN21-161487.007	Dk-blue & dk-grey plastic lid	PP
SN8	CAN21-161487.008	Yellow & grey plastic lid	PP
SN9	CAN21-161487.009	Cyan & lt-cyan plastic lid	PP
SN10	CAN21-161487.010	Dk-cyan & lt-purple plastic lid	PP
SN11	CAN21-161487.011	White translucent plastic straw(semi-product)	PP
SN12	CAN21-161487.012	Transparent plastic bottle	Tritan
SN13	CAN21-161487.013	Translucent silicone nozzle & gasket	Silicone
SN14	CAN21-161487.014	Silvery metal bottle(semi-product)	Stainless steel
SN15	CAN21-161487.015	Lt-blue plastic lid	PP Co-polymer
SN16	CAN21-161487.016	Lanthinnus plastic lid	PP Co-polymer
SN17	CAN21-161487.017	Mauve plastic lid	PP Co-polymer
SN18	CAN21-161487.018	Dk-purple plastic lid(semi-product)	PP Co-polymer
SN19	CAN21-161487.019	Purple plastic lid	PP Co-polymer
SN20	CAN21-161487.020	Dk-blue plastic lid	PP Co-polymer
SN21	CAN21-161487.021	Yellow plastic lid	PP Co-polymer
SN22	CAN21-161487.022	Cyan plastic lid	PP Co-polymer
SN23	CAN21-161487.023	Dk-cyan plastic lid	PP Co-polymer
SN24	CAN21-161487.024	Blue transparent plastic bottle	Tritan
SN25	CAN21-161487.025	Grey transparent plastic bottle	Tritan

FDA 21 CFR 177.1210–Chloroform-soluble extractive residues

Test Method : With reference to US FDA 21 CFR 177.1210.

Simulant Used	Time	Temperature	Max. Permissible Limit	Result of 013	Comment
8% Ethanol	2.0hr(s)	150°F	50ppm	<5ppm	PASS

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Distilled Water	---	Fill boiling, cool to 100°F	50ppm	<5ppm	PASS

Notes :

1. ppm = mg/kg = milligram per kilogram of foodstuff in contact with
2. Test sample was applied to container with capacity of 0.60 L.

FDA 21 CFR 177.2600–Total extractive residues

Test Method : With reference to US FDA 21 CFR 177.2600.

Simulant Used	Time	Temperature	Max. Permissible Limit	Result of 013	Comment
Distilled Water	7.0hr(s)	Reflux temperature	20mg/inch²	<0.5mg/inch²	PASS
Succeeding Extraction	2.0hr(s)	Reflux temperature	1mg/inch²	<0.5mg/inch²	PASS

Notes :

mg/inch²= milligram per square inch

Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004, Council of Europe Resolution AP (2004) 5 – Overall migration

Test Method : With reference to Commission Regulation (EU) No 10/2011 of 14 January 2011 Annex III and Annex V for selection of condition and EN 1186-1:2002 for selection of test methods; or EN 1186-3:2002 aqueous food simulants by total immersion method;

Simulant Used	Time	Temperature	Max. Permissible Limit	Result of 013 Overall Migration	Comment
3% Acetic Acid (W/V) Aqueous Solution	1.0hr(s)	100℃	60mg/kg	<20mg/kg	PASS
10% Ethanol (V/V) Aqueous Solution	1.0hr(s)	100℃	60mg/kg	<20mg/kg	PASS

Notes :

1. mg/dm² = milligram per square decimeter
mg/kg = milligram per kilogram of foodstuff in contact with
2. °C = degree Celsius
3.Analytical tolerance of aqueous simulants is 2mg/dm² or 12mg/kg
4.Analytical tolerance of fatty food simulants is 3mg/dm² or 20mg/kg
5.Report the third migration result

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Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004–Sensorial examination odour and taste test

Test Method : With reference to DIN10955:2004,direct contact method.
No.of panelist:6

Test Item(s)	Limit	001	002	003
Test media	-	Distilled water	Distilled water	Distilled water
Test Temperature (℃)	-	70	70	100
Test time (hr)	-	2	2	24
Sensorial examination odour (Point scale)	2.5	0.0	0.0	0.0
Sensorial examination taste (Point scale)	2.5	0.0	0.0	0.0
Comment		**PASS**	**PASS**	**PASS**

Test Item(s)	Limit	004	005	006
Test media	-	Distilled water	Distilled water	Distilled water
Test Temperature (℃)	-	100	100	100
Test time (hr)	-	24	24	24
Sensorial examination odour (Point scale)	2.5	0.0	0.0	0.0
Sensorial examination taste (Point scale)	2.5	0.0	0.0	0.0
Comment		**PASS**	**PASS**	**PASS**

Test Item(s)	Limit	007	008	009
Test media	-	Distilled water	Distilled water	Distilled water
Test Temperature (℃)	-	100	100	100
Test time (hr)	-	24	24	24
Sensorial examination odour (Point scale)	2.5	0.0	0.0	0.0
Sensorial examination taste (Point scale)	2.5	0.0	0.0	0.0
Comment		**PASS**	**PASS**	**PASS**

Test Item(s)	Limit	010	011	012
Test media	-	Distilled water	Distilled water	Distilled water
Test Temperature (℃)	-	100	100	70
Test time (hr)	-	24	24	2
Sensorial examination odour (Point scale)	2.5	0.0	0.0	0.0
Sensorial examination taste (Point scale)	2.5	0.0	0.0	0.0
Comment		**PASS**	**PASS**	**PASS**

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Test Item(s)	Limit	*013*	*014*	*024*
Test media	-	Distilled water	Distilled water	Distilled water
Test Temperature (℃)	-	100	100	70
Test time (hr)	-	24	24	2
Sensorial examination odour (Point scale)	2.5	0.0	0.0	0.0
Sensorial examination taste (Point scale)	2.5	0.0	0.0	0.0
Comment		**PASS**	**PASS**	**PASS**

Test Item(s)	Limit	*025*
Test media	-	Distilled water
Test Temperature (℃)	-	70
Test time (hr)	-	2
Sensorial examination odour (Point scale)	2.5	0.0
Sensorial examination taste (Point scale)	2.5	0.0
Comment		**PASS**

Notes :

Intensity scale (rounded at 0.5):
0 – no perceptible difference
1 – just perceptible difference
2 – slight difference
3 – marked difference
4 – strong difference

Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004,(EU) No 10/2011 and its amendment (EU) 2020/1245 Regulation-Specific migration of 2,2,4,4-Tetramethyl-1,3-cyclobutanediol(TMCD)

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

Sample 012

Simulant Used : 3% Acetic acid (W/V) aqueous solution
Test Condition : 70 ℃ 2.0 hr(s)

Test Item(s)	Max. Permissible Limit	Unit	MDL	Test result
Migration times	-	-	-	1st
Area/Volume	-	dm²/kg	-	7.1
Specific migration of 2,2,4,4-Tetramethyl-1,3-cyclobutanediol(TMCD)	-	mg/kg	0.5	ND

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Sample 024

Simulant Used : 3% Acetic acid (W/V) aqueous solution
Test Condition : 70 ℃ 2.0 hr(s)

Test Item(s)	Max. Permissible Limit	Unit	MDL	Test result
Migration times	-	-	-	1st
Area/Volume	-	dm²/kg	-	7.1
Specific migration of 2,2,4,4-Tetramethyl-1,3-cyclobutanediol(TMCD)	-	mg/kg	0.5	ND

Sample 025

Simulant Used : 3% Acetic acid (W/V) aqueous solution
Test Condition : 70 ℃ 2.0 hr(s)

Test Item(s)	Max. Permissible Limit	Unit	MDL	Test result
Migration times	-	-	-	1st
Area/Volume	-	dm²/kg	-	7.1
Specific migration of 2,2,4,4-Tetramethyl-1,3-cyclobutanediol(TMCD)	-	mg/kg	0.5	ND

Sample 012

Test Item(s)	Max. Permissible Limit	Unit	MDL	Test result
Migration times	-	-	-	2nd
Area/Volume	-	dm²/kg	-	7.1
Specific migration of 2,2,4,4-Tetramethyl-1,3-cyclobutanediol(TMCD)	-	mg/kg	0.5	ND

Sample 024

Test Item(s)	Max. Permissible Limit	Unit	MDL	Test result
Migration times	-	-	-	2nd
Area/Volume	-	dm²/kg	-	7.1
Specific migration of 2,2,4,4-Tetramethyl-1,3-cyclobutanediol(TMCD)	-	mg/kg	0.5	ND

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Sample 025

Test Item(s)	Max. Permissible Limit	Unit	MDL	Test result
Migration times	-	-	-	2nd
Area/Volume	-	dm²/kg	-	7.1
Specific migration of 2,2,4,4-Tetramethyl-1,3-cyclobutanediol(TMCD)	-	mg/kg	0.5	ND

Sample 012

Test Item(s)	Max. Permissible Limit	Unit	MDL	Test result
Migration times	-	-	-	3rd
Area/Volume	-	dm²/kg	-	7.1
Specific migration of 2,2,4,4-Tetramethyl-1,3-cyclobutanediol(TMCD)	5	mg/kg	0.5	ND
Stability				**YES**
Comment				**PASS**

Sample 024

Test Item(s)	Max. Permissible Limit	Unit	MDL	Test result
Migration times	-	-	-	3rd
Area/Volume	-	dm²/kg	-	7.1
Specific migration of 2,2,4,4-Tetramethyl-1,3-cyclobutanediol(TMCD)	5	mg/kg	0.5	ND
Stability				**YES**
Comment				**PASS**

Sample 025

Test Item(s)	Max. Permissible Limit	Unit	MDL	Test result
Migration times	-	-	-	3rd
Area/Volume	-	dm²/kg	-	7.1
Specific migration of 2,2,4,4-Tetramethyl-1,3-cyclobutanediol(TMCD)	5	mg/kg	0.5	ND
Stability				**YES**
Comment				**PASS**

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Notes :

1. mg/kg = milligram per kilogram of foodstuff in contact with
2. °C = degree Celsius
3. MDL=Method Detection Limit
4. ND= Not Detected(less than MDL)

Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004,(EU) No 10/2011 and its amendment (EU) 2020/1245 Regulation-Specific migration of primary aromatic amine (total)

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

Sample 001

Simulant Used : 3% Acetic Acid (W/V) Aqueous Solution
Test Condition : 70 ℃ 2.0 hr(s)

Test Item(s)	Max. Permissible Limit	Unit	MDL	Test result
Migration times	-	-	-	1st
Area/Volume	-	dm²/kg	-	5.1
Specific migration of primary aromatic amine	-	mg/kg	0.002	ND

Sample 002

Simulant Used : 3% Acetic Acid (W/V) Aqueous Solution
Test Condition : 70 ℃ 2.0 hr(s)

Test Item(s)	Max. Permissible Limit	Unit	MDL	Test result
Migration times	-	-	-	1st
Area/Volume	-	dm²/kg	-	5.1
Specific migration of primary aromatic amine	-	mg/kg	0.002	ND

Sample 003

Simulant Used : 3% Acetic Acid (W/V) Aqueous Solution
Test Condition : 100 ℃ 24.0 hr(s)

Test Item(s)	Max. Permissible Limit	Unit	MDL	Test result
Migration times	-	-	-	1st
Area/Volume	-	dm²/kg	-	4.0
Specific migration of primary aromatic amine	-	mg/kg	0.002	ND

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Sample 004

Simulant Used : 3% Acetic Acid (W/V) Aqueous Solution
Test Condition : 100 ℃ 24.0 hr(s)

Test Item(s)	Max. Permissible Limit	Unit	MDL	Test result
Migration times	-	-	-	1st
Area/Volume	-	dm²/kg	-	3.9
Specific migration of primary aromatic amine	-	mg/kg	0.002	ND

Sample 005

Simulant Used : 3% Acetic Acid (W/V) Aqueous Solution
Test Condition : 100 ℃ 24.0 hr(s)

Test Item(s)	Max. Permissible Limit	Unit	MDL	Test result
Migration times	-	-	-	1st
Area/Volume	-	dm²/kg	-	4.0
Specific migration of primary aromatic amine	-	mg/kg	0.002	ND

Sample 006

Simulant Used : 3% Acetic Acid (W/V) Aqueous Solution
Test Condition : 100 ℃ 24.0 hr(s)

Test Item(s)	Max. Permissible Limit	Unit	MDL	Test result
Migration times	-	-	-	1st
Area/Volume	-	dm²/kg	-	5.0
Specific migration of primary aromatic amine	-	mg/kg	0.002	ND

Sample 007

Simulant Used : 3% Acetic Acid (W/V) Aqueous Solution
Test Condition : 100 ℃ 24.0 hr(s)

Test Item(s)	Max. Permissible Limit	Unit	MDL	Test result
Migration times	-	-	-	1st
Area/Volume	-	dm²/kg	-	3.9

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Specific migration of primary aromatic amine	-	mg/kg	0.002	ND

Sample 008

Simulant Used : 3% Acetic Acid (W/V) Aqueous Solution
Test Condition : 100 ℃ 24.0 hr(s)

Test Item(s)	Max. Permissible Limit	Unit	MDL	Test result
Migration times	-	-	-	1st
Area/Volume	-	dm²/kg	-	3.9
Specific migration of primary aromatic amine	-	mg/kg	0.002	ND

Sample 009

Simulant Used : 3% Acetic Acid (W/V) Aqueous Solution
Test Condition : 100 ℃ 24.0 hr(s)

Test Item(s)	Max. Permissible Limit	Unit	MDL	Test result
Migration times	-	-	-	1st
Area/Volume	-	dm²/kg	-	4.0
Specific migration of primary aromatic amine	-	mg/kg	0.002	ND

Sample 010

Simulant Used : 3% Acetic Acid (W/V) Aqueous Solution
Test Condition : 100 ℃ 24.0 hr(s)

Test Item(s)	Max. Permissible Limit	Unit	MDL	Test result
Migration times	-	-	-	1st
Area/Volume	-	dm²/kg	-	4.0
Specific migration of primary aromatic amine	-	mg/kg	0.002	ND

Sample 011

Simulant Used : 3% Acetic Acid (W/V) Aqueous Solution
Test Condition : 100 ℃ 24.0 hr(s)

Test Item(s)	Max. Permissible Limit	Unit	MDL	Test result
Migration times	-	-	-	1st

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Area/Volume	-	dm²/kg	-	1.2
Specific migration of primary aromatic amine	-	mg/kg	0.002	ND

Sample 012

Simulant Used : 3% Acetic Acid (W/V) Aqueous Solution
Test Condition : 70 ℃ 2.0 hr(s)

Test Item(s)	Max. Permissible Limit	Unit	MDL	Test result
Migration times	-	-	-	1st
Area/Volume	-	dm²/kg	-	7.1
Specific migration of primary aromatic amine	-	mg/kg	0.002	ND

Sample 024

Simulant Used : 3% Acetic Acid (W/V) Aqueous Solution
Test Condition : 70 ℃ 2.0 hr(s)

Test Item(s)	Max. Permissible Limit	Unit	MDL	Test result
Migration times	-	-	-	1st
Area/Volume	-	dm²/kg	-	7.1
Specific migration of primary aromatic amine	-	mg/kg	0.002	ND

Sample 025

Simulant Used : 3% Acetic Acid (W/V) Aqueous Solution
Test Condition : 70 ℃ 2.0 hr(s)

Test Item(s)	Max. Permissible Limit	Unit	MDL	Test result
Migration times	-	-	-	1st
Area/Volume	-	dm²/kg	-	7.1
Specific migration of primary aromatic amine	-	mg/kg	0.002	ND

Sample 001

Test Item(s)	Max. Permissible Limit	Unit	MDL	Test result
Migration times	-	-	-	2nd
Area/Volume	-	dm²/kg	-	5.1
Specific migration of primary aromatic amine	-	mg/kg	0.002	ND

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Sample 002

Test Item(s)	Max. Permissible Limit	Unit	MDL	Test result
Migration times	-	-	-	2nd
Area/Volume	-	dm²/kg	-	5.1
Specific migration of primary aromatic amine	-	mg/kg	0.002	ND

Sample 003

Test Item(s)	Max. Permissible Limit	Unit	MDL	Test result
Migration times	-	-	-	2nd
Area/Volume	-	dm²/kg	-	4.0
Specific migration of primary aromatic amine	-	mg/kg	0.002	ND

Sample 004

Test Item(s)	Max. Permissible Limit	Unit	MDL	Test result
Migration times	-	-	-	2nd
Area/Volume	-	dm²/kg	-	3.9
Specific migration of primary aromatic amine	-	mg/kg	0.002	ND

Sample 005

Test Item(s)	Max. Permissible Limit	Unit	MDL	Test result
Migration times	-	-	-	2nd
Area/Volume	-	dm²/kg	-	4.0
Specific migration of primary aromatic amine	-	mg/kg	0.002	ND

Sample 006

Test Item(s)	Max. Permissible Limit	Unit	MDL	Test result
Migration times	-	-	-	2nd
Area/Volume	-	dm²/kg	-	5.0
Specific migration of primary aromatic amine	-	mg/kg	0.002	ND

Sample 007

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Test Item(s)	Max. Permissible Limit	Unit	MDL	Test result
Migration times	-	-	-	2nd
Area/Volume	-	dm²/kg	-	3.9
Specific migration of primary aromatic amine	-	mg/kg	0.002	ND

Sample 008

Test Item(s)	Max. Permissible Limit	Unit	MDL	Test result
Migration times	-	-	-	2nd
Area/Volume	-	dm²/kg	-	3.9
Specific migration of primary aromatic amine	-	mg/kg	0.002	ND

Sample 009

Test Item(s)	Max. Permissible Limit	Unit	MDL	Test result
Migration times	-	-	-	2nd
Area/Volume	-	dm²/kg	-	4.0
Specific migration of primary aromatic amine	-	mg/kg	0.002	ND

Sample 010

Test Item(s)	Max. Permissible Limit	Unit	MDL	Test result
Migration times	-	-	-	2nd
Area/Volume	-	dm²/kg	-	4.0
Specific migration of primary aromatic amine	-	mg/kg	0.002	ND

Sample 011

Test Item(s)	Max. Permissible Limit	Unit	MDL	Test result
Migration times	-	-	-	2nd
Area/Volume	-	dm²/kg	-	1.2
Specific migration of primary aromatic amine	-	mg/kg	0.002	ND

Sample 012

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Test Item(s)	Max. Permissible Limit	Unit	MDL	Test result
Migration times	-	-	-	2nd
Area/Volume	-	dm²/kg	-	7.1
Specific migration of primary aromatic amine	-	mg/kg	0.002	ND

Sample 024

Test Item(s)	Max. Permissible Limit	Unit	MDL	Test result
Migration times	-	-	-	2nd
Area/Volume	-	dm²/kg	-	7.1
Specific migration of primary aromatic amine	-	mg/kg	0.002	ND

Sample 025

Test Item(s)	Max. Permissible Limit	Unit	MDL	Test result
Migration times	-	-	-	2nd
Area/Volume	-	dm²/kg	-	7.1
Specific migration of primary aromatic amine	-	mg/kg	0.002	ND

Sample 001

Test Item(s)	Max. Permissible Limit	Unit	MDL	Test result
Migration times	-	-	-	3rd
Area/Volume	-	dm²/kg	-	5.1
Specific migration of primary aromatic amine	0.01	mg/kg	0.002	ND
Stability				**YES**
Comment				**PASS**

Sample 002

Test Item(s)	Max. Permissible Limit	Unit	MDL	Test result
Migration times	-	-	-	3rd
Area/Volume	-	dm²/kg	-	5.1
Specific migration of primary aromatic amine	0.01	mg/kg	0.002	ND
Stability				**YES**
Comment				**PASS**

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Sample 003

Test Item(s)	Max. Permissible Limit	Unit	MDL	Test result
Migration times	-	-	-	3rd
Area/Volume	-	dm²/kg	-	4.0
Specific migration of primary aromatic amine	0.01	mg/kg	0.002	ND
Stability				**YES**
Comment				**PASS**

Sample 004

Test Item(s)	Max. Permissible Limit	Unit	MDL	Test result
Migration times	-	-	-	3rd
Area/Volume	-	dm²/kg	-	3.9
Specific migration of primary aromatic amine	0.01	mg/kg	0.002	ND
Stability				**YES**
Comment				**PASS**

Sample 005

Test Item(s)	Max. Permissible Limit	Unit	MDL	Test result
Migration times	-	-	-	3rd
Area/Volume	-	dm²/kg	-	4.0
Specific migration of primary aromatic amine	0.01	mg/kg	0.002	ND
Stability				**YES**
Comment				**PASS**

Sample 006

Test Item(s)	Max. Permissible Limit	Unit	MDL	Test result
Migration times	-	-	-	3rd
Area/Volume	-	dm²/kg	-	5.0
Specific migration of primary aromatic amine	0.01	mg/kg	0.002	ND
Stability				**YES**
Comment				**PASS**

Sample 007

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Test Item(s)	Max. Permissible Limit	Unit	MDL	Test result
Migration times	-	-	-	3rd
Area/Volume	-	dm²/kg	-	3.9
Specific migration of primary aromatic amine	0.01	mg/kg	0.002	ND
Stability				**YES**
Comment				**PASS**

Sample 008

Test Item(s)	Max. Permissible Limit	Unit	MDL	Test result
Migration times	-	-	-	3rd
Area/Volume	-	dm²/kg	-	3.9
Specific migration of primary aromatic amine	0.01	mg/kg	0.002	ND
Stability				**YES**
Comment				**PASS**

Sample 009

Test Item(s)	Max. Permissible Limit	Unit	MDL	Test result
Migration times	-	-	-	3rd
Area/Volume	-	dm²/kg	-	4.0
Specific migration of primary aromatic amine	0.01	mg/kg	0.002	ND
Stability				**YES**
Comment				**PASS**

Sample 010

Test Item(s)	Max. Permissible Limit	Unit	MDL	Test result
Migration times	-	-	-	3rd
Area/Volume	-	dm²/kg	-	4.0
Specific migration of primary aromatic amine	0.01	mg/kg	0.002	ND
Stability				**YES**
Comment				**PASS**

Sample 011

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Test Item(s)	Max. Permissible Limit	Unit	MDL	Test result
Migration times	-	-	-	3rd
Area/Volume	-	dm²/kg	-	1.2
Specific migration of primary aromatic amine	0.01	mg/kg	0.002	ND
Stability				**YES**
Comment				**PASS**

Sample 012

Test Item(s)	Max. Permissible Limit	Unit	MDL	Test result
Migration times	-	-	-	3rd
Area/Volume	-	dm²/kg	-	7.1
Specific migration of primary aromatic amine	0.01	mg/kg	0.002	ND
Stability				**YES**
Comment				**PASS**

Sample 024

Test Item(s)	Max. Permissible Limit	Unit	MDL	Test result
Migration times	-	-	-	3rd
Area/Volume	-	dm²/kg	-	7.1
Specific migration of primary aromatic amine	0.01	mg/kg	0.002	ND
Stability				**YES**
Comment				**PASS**

Sample 025

Test Item(s)	Max. Permissible Limit	Unit	MDL	Test result
Migration times	-	-	-	3rd
Area/Volume	-	dm²/kg	-	7.1
Specific migration of primary aromatic amine	0.01	mg/kg	0.002	ND
Stability				**YES**
Comment				**PASS**

Notes :

1. mg/kg = milligram per kilogram of foodstuff in contact with
2. °C = degree Celsius
3. MDL=Method Detection Limit

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4. ND = Not Detected(less than MDL)

Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004,(EU) No 10/2011 and its amendment (EU) 2020/1245 Regulation– Overall migration

Test Method : With reference to Commission Regulation (EU) No 10/2011 of 14 January 2011 Annex III and Annex V for selection of condition and EN 1186-1:2002 for selection of test methods;
or EN 1186-3:2002 aqueous food simulants by total immersion method;
or EN 1186-9:2002 aqueous food simulants by article filling method;
or EN 1186-14:2002 substitute test.

Sample 001

Simulant Used : 3% Acetic Acid (W/V) Aqueous Solution
Test Condition : 70 ℃ 2.0 hr(s)

Test Item(s)	Max. Permissible Limit	Unit	MDL	Test result
First Migration	-	mg/kg	20	<20
Second Migration	-	mg/kg	20	<20
Third Migration	60	mg/kg	20	<20
Stability				**YES**
Comment				**PASS**

Sample 002

Simulant Used : 3% Acetic Acid (W/V) Aqueous Solution
Test Condition : 70 ℃ 2.0 hr(s)

Test Item(s)	Max. Permissible Limit	Unit	MDL	Test result
First Migration	-	mg/kg	20	<20
Second Migration	-	mg/kg	20	<20
Third Migration	60	mg/kg	20	<20
Stability				**YES**
Comment				**PASS**

Sample 003

Simulant Used : 3% Acetic Acid (W/V) Aqueous Solution
Test Condition : 100 ℃ 1.0 hr(s)

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Test Item(s)	Max. Permissible Limit	Unit	MDL	Test result
First Migration	-	mg/kg	20	40
Second Migration	-	mg/kg	20	<20
Third Migration	60	mg/kg	20	<20
Stability				**YES**
Comment				**PASS**

Sample 004

Simulant Used : 3% Acetic Acid (W/V) Aqueous Solution
Test Condition : 100 ℃ 1.0 hr(s)

Test Item(s)	Max. Permissible Limit	Unit	MDL	Test result
First Migration	-	mg/kg	20	<20
Second Migration	-	mg/kg	20	<20
Third Migration	60	mg/kg	20	<20
Stability				**YES**
Comment				**PASS**

Sample 005

Simulant Used : 3% Acetic Acid (W/V) Aqueous Solution
Test Condition : 100 ℃ 1.0 hr(s)

Test Item(s)	Max. Permissible Limit	Unit	MDL	Test result
First Migration	-	mg/kg	20	<20
Second Migration	-	mg/kg	20	<20
Third Migration	60	mg/kg	20	<20
Stability				**YES**
Comment				**PASS**

Sample 006

Simulant Used : 3% Acetic Acid (W/V) Aqueous Solution
Test Condition : 100 ℃ 1.0 hr(s)

Test Item(s)	Max. Permissible Limit	Unit	MDL	Test result

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First Migration	-	mg/kg	20	<20
Second Migration	-	mg/kg	20	<20
Third Migration	60	mg/kg	20	<20
Stability				**YES**
Comment				**PASS**

Sample 007

Simulant Used : 3% Acetic Acid (W/V) Aqueous Solution
Test Condition : 100 ℃ 1.0 hr(s)

Test Item(s)	Max. Permissible Limit	Unit	MDL	Test result
First Migration	-	mg/kg	20	<20
Second Migration	-	mg/kg	20	<20
Third Migration	60	mg/kg	20	<20
Stability				**YES**
Comment				**PASS**

Sample 008

Simulant Used : 3% Acetic Acid (W/V) Aqueous Solution
Test Condition : 100 ℃ 1.0 hr(s)

Test Item(s)	Max. Permissible Limit	Unit	MDL	Test result
First Migration	-	mg/kg	20	<20
Second Migration	-	mg/kg	20	<20
Third Migration	60	mg/kg	20	<20
Stability				**YES**
Comment				**PASS**

Sample 009

Simulant Used : 3% Acetic Acid (W/V) Aqueous Solution
Test Condition : 100 ℃ 1.0 hr(s)

Test Item(s)	Max. Permissible Limit	Unit	MDL	Test result
First Migration	-	mg/kg	20	<20
Second Migration	-	mg/kg	20	<20
Third Migration	60	mg/kg	20	<20

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Stability	**YES**
Comment	**PASS**

Sample 010

Simulant Used : 3% Acetic Acid (W/V) Aqueous Solution
Test Condition : 100 ℃ 1.0 hr(s)

Test Item(s)	Max. Permissible Limit	Unit	MDL	Test result
First Migration	-	mg/kg	20	<20
Second Migration	-	mg/kg	20	<20
Third Migration	60	mg/kg	20	<20
Stability				**YES**
Comment				**PASS**

Sample 011

Simulant Used : 3% Acetic Acid (W/V) Aqueous Solution
Test Condition : 100 ℃ 1.0 hr(s)

Test Item(s)	Max. Permissible Limit	Unit	MDL	Test result
First Migration	-	mg/kg	20	<20
Second Migration	-	mg/kg	20	<20
Third Migration	60	mg/kg	20	<20
Stability				**YES**
Comment				**PASS**

Sample 012

Simulant Used : 3% Acetic Acid (W/V) Aqueous Solution
Test Condition : 70 ℃ 2.0 hr(s)

Test Item(s)	Max. Permissible Limit	Unit	MDL	Test result
First Migration	-	mg/kg	20	<20
Second Migration	-	mg/kg	20	<20
Third Migration	60	mg/kg	20	<20
Stability				**YES**
Comment				**PASS**

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Sample 024

Simulant Used : 3% Acetic Acid (W/V) Aqueous Solution
Test Condition : 70 ℃ 2.0 hr(s)

Test Item(s)	Max. Permissible Limit	Unit	MDL	Test result
First Migration	-	mg/kg	20	<20
Second Migration	-	mg/kg	20	<20
Third Migration	60	mg/kg	20	<20
Stability				**YES**
Comment				**PASS**

Sample 025

Simulant Used : 3% Acetic Acid (W/V) Aqueous Solution
Test Condition : 70 ℃ 2.0 hr(s)

Test Item(s)	Max. Permissible Limit	Unit	MDL	Test result
First Migration	-	mg/kg	20	<20
Second Migration	-	mg/kg	20	<20
Third Migration	60	mg/kg	20	<20
Stability				**YES**
Comment				**PASS**

Sample 001

Simulant Used : 10% Ethanol (V/V) Aqueous Solution
Test Condition : 70 ℃ 2.0 hr(s)

Test Item(s)	Max. Permissible Limit	Unit	MDL	Test result
First Migration	-	mg/kg	20	<20
Second Migration	-	mg/kg	20	<20
Third Migration	60	mg/kg	20	<20
Stability				**YES**
Comment				**PASS**

Sample 002

Simulant Used : 10% Ethanol (V/V) Aqueous Solution

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Test Condition : 70 ℃ 2.0 hr(s)

Test Item(s)	Max. Permissible Limit	Unit	MDL	Test result
First Migration	-	mg/kg	20	<20
Second Migration	-	mg/kg	20	<20
Third Migration	60	mg/kg	20	<20
Stability				**YES**
Comment				**PASS**

Sample 003

Simulant Used : 10% Ethanol (V/V) Aqueous Solution
Test Condition : 100 ℃ 1.0 hr(s)

Test Item(s)	Max. Permissible Limit	Unit	MDL	Test result
First Migration	-	mg/kg	20	<20
Second Migration	-	mg/kg	20	<20
Third Migration	60	mg/kg	20	<20
Stability				**YES**
Comment				**PASS**

Sample 004

Simulant Used : 10% Ethanol (V/V) Aqueous Solution
Test Condition : 100 ℃ 1.0 hr(s)

Test Item(s)	Max. Permissible Limit	Unit	MDL	Test result
First Migration	-	mg/kg	20	<20
Second Migration	-	mg/kg	20	<20
Third Migration	60	mg/kg	20	<20
Stability				**YES**
Comment				**PASS**

Sample 005

Simulant Used : 10% Ethanol (V/V) Aqueous Solution
Test Condition : 100 ℃ 1.0 hr(s)

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Test Item(s)	Max. Permissible Limit	Unit	MDL	Test result
First Migration	-	mg/kg	20	<20
Second Migration	-	mg/kg	20	<20
Third Migration	60	mg/kg	20	<20
Stability				**YES**
Comment				**PASS**

Sample 006

Simulant Used : 10% Ethanol (V/V) Aqueous Solution
Test Condition : 100 ℃ 1.0 hr(s)

Test Item(s)	Max. Permissible Limit	Unit	MDL	Test result
First Migration	-	mg/kg	20	<20
Second Migration	-	mg/kg	20	<20
Third Migration	60	mg/kg	20	<20
Stability				**YES**
Comment				**PASS**

Sample 007

Simulant Used : 10% Ethanol (V/V) Aqueous Solution
Test Condition : 100 ℃ 1.0 hr(s)

Test Item(s)	Max. Permissible Limit	Unit	MDL	Test result
First Migration	-	mg/kg	20	<20
Second Migration	-	mg/kg	20	<20
Third Migration	60	mg/kg	20	<20
Stability				**YES**
Comment				**PASS**

Sample 008

Simulant Used : 10% Ethanol (V/V) Aqueous Solution
Test Condition : 100 ℃ 1.0 hr(s)

Test Item(s)	Max. Permissible Limit	Unit	MDL	Test result
First Migration	-	mg/kg	20	<20

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Second Migration	-	mg/kg	20	<20
Third Migration	60	mg/kg	20	<20
Stability				**YES**
Comment				**PASS**

Sample 009

Simulant Used : 10% Ethanol (V/V) Aqueous Solution
Test Condition : 100 ℃ 1.0 hr(s)

Test Item(s)	Max. Permissible Limit	Unit	MDL	Test result
First Migration	-	mg/kg	20	<20
Second Migration	-	mg/kg	20	<20
Third Migration	60	mg/kg	20	<20
Stability				**YES**
Comment				**PASS**

Sample 010

Simulant Used : 10% Ethanol (V/V) Aqueous Solution
Test Condition : 100 ℃ 1.0 hr(s)

Test Item(s)	Max. Permissible Limit	Unit	MDL	Test result
First Migration	-	mg/kg	20	<20
Second Migration	-	mg/kg	20	<20
Third Migration	60	mg/kg	20	<20
Stability				**YES**
Comment				**PASS**

Sample 011

Simulant Used : 10% Ethanol (V/V) Aqueous Solution
Test Condition : 100 ℃ 1.0 hr(s)

Test Item(s)	Max. Permissible Limit	Unit	MDL	Test result
First Migration	-	mg/kg	20	<20
Second Migration	-	mg/kg	20	<20
Third Migration	60	mg/kg	20	<20
Stability				**YES**

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Comment **PASS**

Sample 012

Simulant Used : 10% Ethanol (V/V) Aqueous Solution
Test Condition : 70 ℃ 2.0 hr(s)

Test Item(s)	Max. Permissible Limit	Unit	MDL	Test result
First Migration	-	mg/kg	20	<20
Second Migration	-	mg/kg	20	<20
Third Migration	60	mg/kg	20	<20
Stability				**YES**
Comment				**PASS**

Sample 024

Simulant Used : 10% Ethanol (V/V) Aqueous Solution
Test Condition : 70 ℃ 2.0 hr(s)

Test Item(s)	Max. Permissible Limit	Unit	MDL	Test result
First Migration	-	mg/kg	20	<20
Second Migration	-	mg/kg	20	<20
Third Migration	60	mg/kg	20	<20
Stability				**YES**
Comment				**PASS**

Sample 025

Simulant Used : 10% Ethanol (V/V) Aqueous Solution
Test Condition : 70 ℃ 2.0 hr(s)

Test Item(s)	Max. Permissible Limit	Unit	MDL	Test result
First Migration	-	mg/kg	20	<20
Second Migration	-	mg/kg	20	<20
Third Migration	60	mg/kg	20	<20
Stability				**YES**
Comment				**PASS**

Sample 001

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Simulant Used : 95% Ethanol
Test Condition : 60 ℃ 2.0 hr(s)

Test Item(s)	Max. Permissible Limit	Unit	MDL	Test result
First Migration	-	mg/kg	20	<20
Second Migration	-	mg/kg	20	<20
Third Migration	60	mg/kg	20	<20
Stability				**YES**
Comment				**PASS**

Sample 002

Simulant Used : 95% Ethanol
Test Condition : 60 ℃ 2.0 hr(s)

Test Item(s)	Max. Permissible Limit	Unit	MDL	Test result
First Migration	-	mg/kg	20	<20
Second Migration	-	mg/kg	20	<20
Third Migration	60	mg/kg	20	<20
Stability				**YES**
Comment				**PASS**

Sample 003

Simulant Used : 95% Ethanol
Test Condition : 60 ℃ 3.0 hr(s)

Test Item(s)	Max. Permissible Limit	Unit	MDL	Test result
First Migration	-	mg/kg	20	<20
Second Migration	-	mg/kg	20	<20
Third Migration	60	mg/kg	20	<20
Stability				**YES**
Comment				**PASS**

Sample 004

Simulant Used : 95% Ethanol
Test Condition : 60 ℃ 3.0 hr(s)

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Test Item(s)	Max. Permissible Limit	Unit	MDL	Test result
First Migration	-	mg/kg	20	<20
Second Migration	-	mg/kg	20	<20
Third Migration	60	mg/kg	20	<20
Stability				**YES**
Comment				**PASS**

Sample 005

Simulant Used : 95% Ethanol
Test Condition : 60 ℃ 3.0 hr(s)

Test Item(s)	Max. Permissible Limit	Unit	MDL	Test result
First Migration	-	mg/kg	20	<20
Second Migration	-	mg/kg	20	<20
Third Migration	60	mg/kg	20	<20
Stability				**YES**
Comment				**PASS**

Sample 006

Simulant Used : 95% Ethanol
Test Condition : 60 ℃ 3.0 hr(s)

Test Item(s)	Max. Permissible Limit	Unit	MDL	Test result
First Migration	-	mg/kg	20	<20
Second Migration	-	mg/kg	20	<20
Third Migration	60	mg/kg	20	<20
Stability				**YES**
Comment				**PASS**

Sample 007

Simulant Used : 95% Ethanol
Test Condition : 60 ℃ 3.0 hr(s)

Test Item(s)	Max. Permissible Limit	Unit	MDL	Test result

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First Migration	-	mg/kg	20	<20
Second Migration	-	mg/kg	20	<20
Third Migration	60	mg/kg	20	<20
Stability				**YES**
Comment				**PASS**

Sample 008

Simulant Used : 95% Ethanol
Test Condition : 60 ℃ 3.0 hr(s)

Test Item(s)	Max. Permissible Limit	Unit	MDL	Test result
First Migration	-	mg/kg	20	<20
Second Migration	-	mg/kg	20	<20
Third Migration	60	mg/kg	20	<20
Stability				**YES**
Comment				**PASS**

Sample 009

Simulant Used : 95% Ethanol
Test Condition : 60 ℃ 3.0 hr(s)

Test Item(s)	Max. Permissible Limit	Unit	MDL	Test result
First Migration	-	mg/kg	20	<20
Second Migration	-	mg/kg	20	<20
Third Migration	60	mg/kg	20	<20
Stability				**YES**
Comment				**PASS**

Sample 010

Simulant Used : 95% Ethanol
Test Condition : 60 ℃ 3.0 hr(s)

Test Item(s)	Max. Permissible Limit	Unit	MDL	Test result
First Migration	-	mg/kg	20	<20
Second Migration	-	mg/kg	20	<20
Third Migration	60	mg/kg	20	<20

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Stability	**YES**
Comment	**PASS**

Sample 011

Simulant Used : 95% Ethanol
Test Condition : 60 ℃ 3.0 hr(s)

Test Item(s)	Max. Permissible Limit	Unit	MDL	Test result
First Migration	-	mg/kg	20	<20
Second Migration	-	mg/kg	20	<20
Third Migration	60	mg/kg	20	<20
Stability				**YES**
Comment				**PASS**

Sample 001

Simulant Used : Isooctane
Test Condition : 40 ℃ 0.5 hr(s)

Test Item(s)	Max. Permissible Limit	Unit	MDL	Test result
First Migration	-	mg/kg	20	<20
Second Migration	-	mg/kg	20	<20
Third Migration	60	mg/kg	20	<20
Stability				**YES**
Comment				**PASS**

Sample 002

Simulant Used : Isooctane
Test Condition : 40 ℃ 0.5 hr(s)

Test Item(s)	Max. Permissible Limit	Unit	MDL	Test result
First Migration	-	mg/kg	20	<20
Second Migration	-	mg/kg	20	<20
Third Migration	60	mg/kg	20	<20
Stability				**YES**
Comment				**PASS**

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Sample 003

Simulant Used : Isooctane
Test Condition : 60 ℃ 1.0 hr(s)

Test Item(s)	Max. Permissible Limit	Unit	MDL	Test result
First Migration	-	mg/kg	20	38
Second Migration	-	mg/kg	20	<20
Third Migration	60	mg/kg	20	<20
Stability				**YES**
Comment				**PASS**

Sample 004

Simulant Used : Isooctane
Test Condition : 60 ℃ 1.0 hr(s)

Test Item(s)	Max. Permissible Limit	Unit	MDL	Test result
First Migration	-	mg/kg	20	37
Second Migration	-	mg/kg	20	<20
Third Migration	60	mg/kg	20	<20
Stability				**YES**
Comment				**PASS**

Sample 005

Simulant Used : Isooctane
Test Condition : 60 ℃ 1.0 hr(s)

Test Item(s)	Max. Permissible Limit	Unit	MDL	Test result
First Migration	-	mg/kg	20	31
Second Migration	-	mg/kg	20	22
Third Migration	60	mg/kg	20	<20
Stability				**YES**
Comment				**PASS**

Sample 006

Simulant Used : Isooctane

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Test Condition : 60 ℃ 1.0 hr(s)

Test Item(s)	Max. Permissible Limit	Unit	MDL	Test result
First Migration	-	mg/kg	20	45
Second Migration	-	mg/kg	20	<20
Third Migration	60	mg/kg	20	<20
Stability				**YES**
Comment				**PASS**

Sample 007

Simulant Used : Isooctane
Test Condition : 60 ℃ 1.0 hr(s)

Test Item(s)	Max. Permissible Limit	Unit	MDL	Test result
First Migration	-	mg/kg	20	35
Second Migration	-	mg/kg	20	<20
Third Migration	60	mg/kg	20	21
Stability				**YES**
Comment				**PASS**

Sample 008

Simulant Used : Isooctane
Test Condition : 60 ℃ 1.0 hr(s)

Test Item(s)	Max. Permissible Limit	Unit	MDL	Test result
First Migration	-	mg/kg	20	30
Second Migration	-	mg/kg	20	<20
Third Migration	60	mg/kg	20	<20
Stability				**YES**
Comment				**PASS**

Sample 009

Simulant Used : Isooctane
Test Condition : 60 ℃ 1.0 hr(s)

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Test Item(s)	Max. Permissible Limit	Unit	MDL	Test result
First Migration	-	mg/kg	20	46
Second Migration	-	mg/kg	20	20
Third Migration	60	mg/kg	20	<20
Stability				**YES**
Comment				**PASS**

Sample 010

Simulant Used : Isooctane
Test Condition : 60 ℃ 1.0 hr(s)

Test Item(s)	Max. Permissible Limit	Unit	MDL	Test result
First Migration	-	mg/kg	20	36
Second Migration	-	mg/kg	20	<20
Third Migration	60	mg/kg	20	<20
Stability				**YES**
Comment				**PASS**

Sample 011

Simulant Used : Isooctane
Test Condition : 60 ℃ 1.0 hr(s)

Test Item(s)	Max. Permissible Limit	Unit	MDL	Test result
First Migration	-	mg/kg	20	22
Second Migration	-	mg/kg	20	<20
Third Migration	60	mg/kg	20	<20
Stability				**YES**
Comment				**PASS**

Notes :

1. mg/dm² = milligram per square decimeter
mg/kg = milligram per kilogram of foodstuff in contact with
2. °C = degree Celsius
3.Analytical tolerance of aqueous simulants is 2mg/dm² or 12mg/kg
4.Analytical tolerance of fatty food simulants is 3mg/dm² or 20mg/kg

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Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004, (EU) No 10/2011 and its amendment (EU) 2020/1245 Regulation –Specific Migration of Heavy Metal

Test Method : With reference to EN13130-1:2004, analysis was performed by ICP-MS.

Sample 001

Simulant Used : 3% Acetic Acid (W/V) Aqueous Solution
Test Condition : 70 ℃ 2.0 hr(s)

Test Item(s)	Max. Permissible Limit	Unit	MDL	Test result
Migration times	-	-	-	1st
Area/Volume	-	dm²/kg	-	5.1
Chromium (Cr)	ND	mg/kg	0.01	ND
Arsenic (As)	ND	mg/kg	0.01	ND
Cadmium (Cd)	ND	mg/kg	0.002	ND
Mercury (Hg)	ND	mg/kg	0.01	ND
Lead (Pb)	ND	mg/kg	0.01	ND
Lithium (Li)	-	mg/kg	0.1	ND
Aluminum (Al)	-	mg/kg	0.1	ND
Manganese (Mn)	-	mg/kg	0.1	ND
Iron (Fe)	-	mg/kg	5	ND
Cobalt (Co)	-	mg/kg	0.01	ND
Nickel (Ni)	-	mg/kg	0.01	ND
Copper (Cu)	-	mg/kg	0.25	ND
Zinc (Zn)	-	mg/kg	0.5	ND
Antimony (Sb)	-	mg/kg	0.01	ND
Barium (Ba)	-	mg/kg	0.25	ND
Lanthanum (La)	-	mg/kg	0.025	ND
Europium (Eu)	-	mg/kg	0.025	ND
Gadolinium (Gd)	-	mg/kg	0.025	ND
Terbium (Tb)	-	mg/kg	0.025	ND
Lanthanum (La)+ Europium (Eu)+ Gadolinium (Gd)+ Terbium(Tb)	-	mg/kg	-	ND

Sample 002

Simulant Used : 3% Acetic Acid (W/V) Aqueous Solution
Test Condition : 70 ℃ 2.0 hr(s)

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Test Item(s)	Max. Permissible Limit	Unit	MDL	Test result
Migration times	-	-	-	1st
Area/Volume	-	dm²/kg	-	5.1
Chromium (Cr)	ND	mg/kg	0.01	ND
Arsenic (As)	ND	mg/kg	0.01	ND
Cadmium (Cd)	ND	mg/kg	0.002	ND
Mercury (Hg)	ND	mg/kg	0.01	ND
Lead (Pb)	ND	mg/kg	0.01	ND
Lithium (Li)	-	mg/kg	0.1	ND
Aluminum (Al)	-	mg/kg	0.1	ND
Manganese (Mn)	-	mg/kg	0.1	ND
Iron (Fe)	-	mg/kg	5	ND
Cobalt (Co)	-	mg/kg	0.01	ND
Nickel (Ni)	-	mg/kg	0.01	ND
Copper (Cu)	-	mg/kg	0.25	ND
Zinc (Zn)	-	mg/kg	0.5	ND
Antimony (Sb)	-	mg/kg	0.01	ND
Barium (Ba)	-	mg/kg	0.25	ND
Lanthanum (La)	-	mg/kg	0.025	ND
Europium (Eu)	-	mg/kg	0.025	ND
Gadolinium (Gd)	-	mg/kg	0.025	ND
Terbium (Tb)	-	mg/kg	0.025	ND
Lanthanum (La)+ Europium (Eu)+ Gadolinium (Gd)+ Terbium(Tb)	-	mg/kg	-	ND

Sample 003

Simulant Used : 3% Acetic Acid (W/V) Aqueous Solution
Test Condition : 100 ℃ 24.0 hr(s)

Test Item(s)	Max. Permissible Limit	Unit	MDL	Test result
Migration times	-	-	-	1st
Area/Volume	-	dm²/kg	-	4.0
Chromium (Cr)	ND	mg/kg	0.01	ND
Arsenic (As)	ND	mg/kg	0.01	ND
Cadmium (Cd)	ND	mg/kg	0.002	ND
Mercury (Hg)	ND	mg/kg	0.01	ND
Lead (Pb)	ND	mg/kg	0.01	ND

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Lithium (Li)	-	mg/kg	0.1	ND
Aluminum (Al)	-	mg/kg	0.1	ND
Manganese (Mn)	-	mg/kg	0.1	ND
Iron (Fe)	-	mg/kg	5	ND
Cobalt (Co)	-	mg/kg	0.01	ND
Nickel (Ni)	-	mg/kg	0.01	ND
Copper (Cu)	-	mg/kg	0.25	ND
Zinc (Zn)	-	mg/kg	0.5	ND
Antimony (Sb)	-	mg/kg	0.01	ND
Barium (Ba)	-	mg/kg	0.25	ND
Lanthanum (La)	-	mg/kg	0.025	ND
Europium (Eu)	-	mg/kg	0.025	ND
Gadolinium (Gd)	-	mg/kg	0.025	ND
Terbium (Tb)	-	mg/kg	0.025	ND
Lanthanum (La)+ Europium (Eu)+ Gadolinium (Gd)+ Terbium(Tb)	-	mg/kg	-	ND

Sample 004

Simulant Used : 3% Acetic Acid (W/V) Aqueous Solution
Test Condition : 100 ℃ 24.0 hr(s)

Test Item(s)	Max. Permissible Limit	Unit	MDL	Test result
Migration times	-	-	-	1st
Area/Volume	-	dm²/kg	-	3.9
Chromium (Cr)	ND	mg/kg	0.01	ND
Arsenic (As)	ND	mg/kg	0.01	ND
Cadmium (Cd)	ND	mg/kg	0.002	ND
Mercury (Hg)	ND	mg/kg	0.01	ND
Lead (Pb)	ND	mg/kg	0.01	ND
Lithium (Li)	-	mg/kg	0.1	ND
Aluminum (Al)	-	mg/kg	0.1	ND
Manganese (Mn)	-	mg/kg	0.1	ND
Iron (Fe)	-	mg/kg	5	ND
Cobalt (Co)	-	mg/kg	0.01	ND
Nickel (Ni)	-	mg/kg	0.01	ND
Copper (Cu)	-	mg/kg	0.25	ND
Zinc (Zn)	-	mg/kg	0.5	ND
Antimony (Sb)	-	mg/kg	0.01	ND
Barium (Ba)	-	mg/kg	0.25	ND

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Lanthanum (La)	-	mg/kg	0.025	ND
Europium (Eu)	-	mg/kg	0.025	ND
Gadolinium (Gd)	-	mg/kg	0.025	ND
Terbium (Tb)	-	mg/kg	0.025	ND
Lanthanum (La)+ Europium (Eu)+ Gadolinium (Gd)+ Terbium(Tb)	-	mg/kg	-	ND

Sample 005

Simulant Used : 3% Acetic Acid (W/V) Aqueous Solution
Test Condition : 100 ℃ 24.0 hr(s)

Test Item(s)	Max. Permissible Limit	Unit	MDL	Test result
Migration times	-	-	-	1st
Area/Volume	-	dm²/kg	-	4.0
Chromium (Cr)	ND	mg/kg	0.01	ND
Arsenic (As)	ND	mg/kg	0.01	ND
Cadmium (Cd)	ND	mg/kg	0.002	ND
Mercury (Hg)	ND	mg/kg	0.01	ND
Lead (Pb)	ND	mg/kg	0.01	ND
Lithium (Li)	-	mg/kg	0.1	ND
Aluminum (Al)	-	mg/kg	0.1	ND
Manganese (Mn)	-	mg/kg	0.1	ND
Iron (Fe)	-	mg/kg	5	ND
Cobalt (Co)	-	mg/kg	0.01	ND
Nickel (Ni)	-	mg/kg	0.01	ND
Copper (Cu)	-	mg/kg	0.25	ND
Zinc (Zn)	-	mg/kg	0.5	ND
Antimony (Sb)	-	mg/kg	0.01	ND
Barium (Ba)	-	mg/kg	0.25	ND
Lanthanum (La)	-	mg/kg	0.025	ND
Europium (Eu)	-	mg/kg	0.025	ND
Gadolinium (Gd)	-	mg/kg	0.025	ND
Terbium (Tb)	-	mg/kg	0.025	ND
Lanthanum (La)+ Europium (Eu)+ Gadolinium (Gd)+ Terbium(Tb)	-	mg/kg	-	ND

Sample 006

Simulant Used : 3% Acetic Acid (W/V) Aqueous Solution
Test Condition : 100 ℃ 24.0 hr(s)

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Test Item(s)	Max. Permissible Limit	Unit	MDL	Test result
Migration times	-	-	-	1st
Area/Volume	-	dm²/kg	-	5.0
Chromium (Cr)	ND	mg/kg	0.01	ND
Arsenic (As)	ND	mg/kg	0.01	ND
Cadmium (Cd)	ND	mg/kg	0.002	ND
Mercury (Hg)	ND	mg/kg	0.01	ND
Lead (Pb)	ND	mg/kg	0.01	ND
Lithium (Li)	-	mg/kg	0.1	ND
Aluminum (Al)	-	mg/kg	0.1	ND
Manganese (Mn)	-	mg/kg	0.1	ND
Iron (Fe)	-	mg/kg	5	ND
Cobalt (Co)	-	mg/kg	0.01	ND
Nickel (Ni)	-	mg/kg	0.01	ND
Copper (Cu)	-	mg/kg	0.25	ND
Zinc (Zn)	-	mg/kg	0.5	ND
Antimony (Sb)	-	mg/kg	0.01	ND
Barium (Ba)	-	mg/kg	0.25	ND
Lanthanum (La)	-	mg/kg	0.025	ND
Europium (Eu)	-	mg/kg	0.025	ND
Gadolinium (Gd)	-	mg/kg	0.025	ND
Terbium (Tb)	-	mg/kg	0.025	ND
Lanthanum (La)+ Europium (Eu)+ Gadolinium (Gd)+ Terbium(Tb)	-	mg/kg	-	ND

Sample 007

Simulant Used : 3% Acetic Acid (W/V) Aqueous Solution
Test Condition : 100 ℃ 24.0 hr(s)

Test Item(s)	Max. Permissible Limit	Unit	MDL	Test result
Migration times	-	-	-	1st
Area/Volume	-	dm²/kg	-	3.9
Chromium (Cr)	ND	mg/kg	0.01	ND
Arsenic (As)	ND	mg/kg	0.01	ND
Cadmium (Cd)	ND	mg/kg	0.002	ND
Mercury (Hg)	ND	mg/kg	0.01	ND
Lead (Pb)	ND	mg/kg	0.01	ND

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Lithium (Li)	-	mg/kg	0.1	ND
Aluminum (Al)	-	mg/kg	0.1	ND
Manganese (Mn)	-	mg/kg	0.1	ND
Iron (Fe)	-	mg/kg	5	ND
Cobalt (Co)	-	mg/kg	0.01	ND
Nickel (Ni)	-	mg/kg	0.01	ND
Copper (Cu)	-	mg/kg	0.25	ND
Zinc (Zn)	-	mg/kg	0.5	ND
Antimony (Sb)	-	mg/kg	0.01	ND
Barium (Ba)	-	mg/kg	0.25	ND
Lanthanum (La)	-	mg/kg	0.025	ND
Europium (Eu)	-	mg/kg	0.025	ND
Gadolinium (Gd)	-	mg/kg	0.025	ND
Terbium (Tb)	-	mg/kg	0.025	ND
Lanthanum (La)+ Europium (Eu)+ Gadolinium (Gd)+ Terbium(Tb)	-	mg/kg	-	ND

Sample 008

Simulant Used : 3% Acetic Acid (W/V) Aqueous Solution
Test Condition : 100 ℃ 24.0 hr(s)

Test Item(s)	Max. Permissible Limit	Unit	MDL	Test result
Migration times	-	-	-	1st
Area/Volume	-	dm²/kg	-	3.9
Chromium (Cr)	ND	mg/kg	0.01	ND
Arsenic (As)	ND	mg/kg	0.01	ND
Cadmium (Cd)	ND	mg/kg	0.002	ND
Mercury (Hg)	ND	mg/kg	0.01	ND
Lead (Pb)	ND	mg/kg	0.01	ND
Lithium (Li)	-	mg/kg	0.1	ND
Aluminum (Al)	-	mg/kg	0.1	ND
Manganese (Mn)	-	mg/kg	0.1	ND
Iron (Fe)	-	mg/kg	5	ND
Cobalt (Co)	-	mg/kg	0.01	ND
Nickel (Ni)	-	mg/kg	0.01	ND
Copper (Cu)	-	mg/kg	0.25	ND
Zinc (Zn)	-	mg/kg	0.5	ND
Antimony (Sb)	-	mg/kg	0.01	ND
Barium (Ba)	-	mg/kg	0.25	ND

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Lanthanum (La)	-	mg/kg	0.025	ND
Europium (Eu)	-	mg/kg	0.025	ND
Gadolinium (Gd)	-	mg/kg	0.025	ND
Terbium (Tb)	-	mg/kg	0.025	ND
Lanthanum (La)+ Europium (Eu)+ Gadolinium (Gd)+ Terbium(Tb)	-	mg/kg	-	ND

Sample 009

Simulant Used : 3% Acetic Acid (W/V) Aqueous Solution
Test Condition : 100 ℃ 24.0 hr(s)

Test Item(s)	Max. Permissible Limit	Unit	MDL	Test result
Migration times	-	-	-	1st
Area/Volume	-	dm²/kg	-	4.0
Chromium (Cr)	ND	mg/kg	0.01	ND
Arsenic (As)	ND	mg/kg	0.01	ND
Cadmium (Cd)	ND	mg/kg	0.002	ND
Mercury (Hg)	ND	mg/kg	0.01	ND
Lead (Pb)	ND	mg/kg	0.01	ND
Lithium (Li)	-	mg/kg	0.1	ND
Aluminum (Al)	-	mg/kg	0.1	ND
Manganese (Mn)	-	mg/kg	0.1	ND
Iron (Fe)	-	mg/kg	5	ND
Cobalt (Co)	-	mg/kg	0.01	ND
Nickel (Ni)	-	mg/kg	0.01	ND
Copper (Cu)	-	mg/kg	0.25	ND
Zinc (Zn)	-	mg/kg	0.5	ND
Antimony (Sb)	-	mg/kg	0.01	ND
Barium (Ba)	-	mg/kg	0.25	ND
Lanthanum (La)	-	mg/kg	0.025	ND
Europium (Eu)	-	mg/kg	0.025	ND
Gadolinium (Gd)	-	mg/kg	0.025	ND
Terbium (Tb)	-	mg/kg	0.025	ND
Lanthanum (La)+ Europium (Eu)+ Gadolinium (Gd)+ Terbium(Tb)	-	mg/kg	-	ND

Sample 010

Simulant Used : 3% Acetic Acid (W/V) Aqueous Solution
Test Condition : 100 ℃ 24.0 hr(s)

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Test Item(s)	Max. Permissible Limit	Unit	MDL	Test result
Migration times	-	-	-	1st
Area/Volume	-	dm²/kg	-	4.0
Chromium (Cr)	ND	mg/kg	0.01	ND
Arsenic (As)	ND	mg/kg	0.01	ND
Cadmium (Cd)	ND	mg/kg	0.002	ND
Mercury (Hg)	ND	mg/kg	0.01	ND
Lead (Pb)	ND	mg/kg	0.01	ND
Lithium (Li)	-	mg/kg	0.1	ND
Aluminum (Al)	-	mg/kg	0.1	ND
Manganese (Mn)	-	mg/kg	0.1	ND
Iron (Fe)	-	mg/kg	5	ND
Cobalt (Co)	-	mg/kg	0.01	ND
Nickel (Ni)	-	mg/kg	0.01	ND
Copper (Cu)	-	mg/kg	0.25	ND
Zinc (Zn)	-	mg/kg	0.5	ND
Antimony (Sb)	-	mg/kg	0.01	ND
Barium (Ba)	-	mg/kg	0.25	ND
Lanthanum (La)	-	mg/kg	0.025	ND
Europium (Eu)	-	mg/kg	0.025	ND
Gadolinium (Gd)	-	mg/kg	0.025	ND
Terbium (Tb)	-	mg/kg	0.025	ND
Lanthanum (La)+ Europium (Eu)+ Gadolinium (Gd)+ Terbium(Tb)	-	mg/kg	-	ND

Sample 011

Simulant Used : 3% Acetic Acid (W/V) Aqueous Solution
Test Condition : 100 ℃ 24.0 hr(s)

Test Item(s)	Max. Permissible Limit	Unit	MDL	Test result
Migration times	-	-	-	1st
Area/Volume	-	dm²/kg	-	1.2
Chromium (Cr)	ND	mg/kg	0.01	ND
Arsenic (As)	ND	mg/kg	0.01	ND
Cadmium (Cd)	ND	mg/kg	0.002	ND
Mercury (Hg)	ND	mg/kg	0.01	ND
Lead (Pb)	ND	mg/kg	0.01	ND

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Lithium (Li)	-	mg/kg	0.1	ND
Aluminum (Al)	-	mg/kg	0.1	ND
Manganese (Mn)	-	mg/kg	0.1	ND
Iron (Fe)	-	mg/kg	5	ND
Cobalt (Co)	-	mg/kg	0.01	ND
Nickel (Ni)	-	mg/kg	0.01	ND
Copper (Cu)	-	mg/kg	0.25	ND
Zinc (Zn)	-	mg/kg	0.5	ND
Antimony (Sb)	-	mg/kg	0.01	ND
Barium (Ba)	-	mg/kg	0.25	ND
Lanthanum (La)	-	mg/kg	0.025	ND
Europium (Eu)	-	mg/kg	0.025	ND
Gadolinium (Gd)	-	mg/kg	0.025	ND
Terbium (Tb)	-	mg/kg	0.025	ND
Lanthanum (La)+ Europium (Eu)+ Gadolinium (Gd)+ Terbium(Tb)	-	mg/kg	-	ND

Sample 012

Simulant Used : 3% Acetic Acid (W/V) Aqueous Solution
Test Condition : 70 ℃ 2.0 hr(s)

Test Item(s)	Max. Permissible Limit	Unit	MDL	Test result
Migration times	-	-	-	1st
Area/Volume	-	dm²/kg	-	7.1
Chromium (Cr)	ND	mg/kg	0.01	ND
Arsenic (As)	ND	mg/kg	0.01	ND
Cadmium (Cd)	ND	mg/kg	0.002	ND
Mercury (Hg)	ND	mg/kg	0.01	ND
Lead (Pb)	ND	mg/kg	0.01	ND
Lithium (Li)	-	mg/kg	0.1	ND
Aluminum (Al)	-	mg/kg	0.1	ND
Manganese (Mn)	-	mg/kg	0.1	ND
Iron (Fe)	-	mg/kg	5	ND
Cobalt (Co)	-	mg/kg	0.01	ND
Nickel (Ni)	-	mg/kg	0.01	ND
Copper (Cu)	-	mg/kg	0.25	ND
Zinc (Zn)	-	mg/kg	0.5	ND
Antimony (Sb)	-	mg/kg	0.01	ND
Barium (Ba)	-	mg/kg	0.25	ND

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Lanthanum (La)	-	mg/kg	0.025	ND
Europium (Eu)	-	mg/kg	0.025	ND
Gadolinium (Gd)	-	mg/kg	0.025	ND
Terbium (Tb)	-	mg/kg	0.025	ND
Lanthanum (La)+ Europium (Eu)+ Gadolinium (Gd)+ Terbium(Tb)	-	mg/kg	-	ND

Sample 024

Simulant Used : 3% Acetic Acid (W/V) Aqueous Solution
Test Condition : 70 ℃ 2.0 hr(s)

Test Item(s)	Max. Permissible Limit	Unit	MDL	Test result
Migration times	-	-	-	1st
Area/Volume	-	dm²/kg	-	7.1
Chromium (Cr)	ND	mg/kg	0.01	ND
Arsenic (As)	ND	mg/kg	0.01	ND
Cadmium (Cd)	ND	mg/kg	0.002	ND
Mercury (Hg)	ND	mg/kg	0.01	ND
Lead (Pb)	ND	mg/kg	0.01	ND
Lithium (Li)	-	mg/kg	0.1	ND
Aluminum (Al)	-	mg/kg	0.1	ND
Manganese (Mn)	-	mg/kg	0.1	ND
Iron (Fe)	-	mg/kg	5	ND
Cobalt (Co)	-	mg/kg	0.01	ND
Nickel (Ni)	-	mg/kg	0.01	ND
Copper (Cu)	-	mg/kg	0.25	ND
Zinc (Zn)	-	mg/kg	0.5	ND
Antimony (Sb)	-	mg/kg	0.01	ND
Barium (Ba)	-	mg/kg	0.25	ND
Lanthanum (La)	-	mg/kg	0.025	ND
Europium (Eu)	-	mg/kg	0.025	ND
Gadolinium (Gd)	-	mg/kg	0.025	ND
Terbium (Tb)	-	mg/kg	0.025	ND
Lanthanum (La)+ Europium (Eu)+ Gadolinium (Gd)+ Terbium(Tb)	-	mg/kg	-	ND

Sample 025

Simulant Used : 3% Acetic Acid (W/V) Aqueous Solution
Test Condition : 70 ℃ 2.0 hr(s)

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Test Item(s)	Max. Permissible Limit	Unit	MDL	Test result
Migration times	-	-	-	1st
Area/Volume	-	dm²/kg	-	7.1
Chromium (Cr)	ND	mg/kg	0.01	ND
Arsenic (As)	ND	mg/kg	0.01	ND
Cadmium (Cd)	ND	mg/kg	0.002	ND
Mercury (Hg)	ND	mg/kg	0.01	ND
Lead (Pb)	ND	mg/kg	0.01	ND
Lithium (Li)	-	mg/kg	0.1	ND
Aluminum (Al)	-	mg/kg	0.1	ND
Manganese (Mn)	-	mg/kg	0.1	ND
Iron (Fe)	-	mg/kg	5	ND
Cobalt (Co)	-	mg/kg	0.01	ND
Nickel (Ni)	-	mg/kg	0.01	ND
Copper (Cu)	-	mg/kg	0.25	ND
Zinc (Zn)	-	mg/kg	0.5	ND
Antimony (Sb)	-	mg/kg	0.01	ND
Barium (Ba)	-	mg/kg	0.25	ND
Lanthanum (La)	-	mg/kg	0.025	ND
Europium (Eu)	-	mg/kg	0.025	ND
Gadolinium (Gd)	-	mg/kg	0.025	ND
Terbium (Tb)	-	mg/kg	0.025	ND
Lanthanum (La)+ Europium (Eu)+ Gadolinium (Gd)+ Terbium(Tb)	-	mg/kg	-	ND

Sample 001

Test Item(s)	Max. Permissible Limit	Unit	MDL	Test result
Migration times	-	-	-	2nd
Area/Volume	-	dm²/kg	-	5.1
Chromium (Cr)	-	mg/kg	0.01	ND
Arsenic (As)	-	mg/kg	0.01	ND
Cadmium (Cd)	-	mg/kg	0.002	ND
Mercury (Hg)	-	mg/kg	0.01	ND
Lead (Pb)	-	mg/kg	0.01	ND
Lithium (Li)	-	mg/kg	0.1	ND
Aluminum (Al)	-	mg/kg	0.1	ND
Manganese (Mn)	-	mg/kg	0.1	ND

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Iron (Fe)	-	mg/kg	5	ND
Cobalt (Co)	-	mg/kg	0.01	ND
Nickel (Ni)	-	mg/kg	0.01	ND
Copper (Cu)	-	mg/kg	0.25	ND
Zinc (Zn)	-	mg/kg	0.5	ND
Antimony (Sb)	-	mg/kg	0.01	ND
Barium (Ba)	-	mg/kg	0.25	ND
Lanthanum (La)	-	mg/kg	0.025	ND
Europium (Eu)	-	mg/kg	0.025	ND
Gadolinium (Gd)	-	mg/kg	0.025	ND
Terbium (Tb)	-	mg/kg	0.025	ND
Lanthanum (La)+ Europium (Eu)+ Gadolinium (Gd)+ Terbium(Tb)	-	mg/kg	-	ND

Sample 002

Test Item(s)	Max. Permissible Limit	Unit	MDL	Test result
Migration times	-	-	-	2nd
Area/Volume	-	dm²/kg	-	5.1
Chromium (Cr)	-	mg/kg	0.01	ND
Arsenic (As)	-	mg/kg	0.01	ND
Cadmium (Cd)	-	mg/kg	0.002	ND
Mercury (Hg)	-	mg/kg	0.01	ND
Lead (Pb)	-	mg/kg	0.01	ND
Lithium (Li)	-	mg/kg	0.1	ND
Aluminum (Al)	-	mg/kg	0.1	ND
Manganese (Mn)	-	mg/kg	0.1	ND
Iron (Fe)	-	mg/kg	5	ND
Cobalt (Co)	-	mg/kg	0.01	ND
Nickel (Ni)	-	mg/kg	0.01	ND
Copper (Cu)	-	mg/kg	0.25	ND
Zinc (Zn)	-	mg/kg	0.5	ND
Antimony (Sb)	-	mg/kg	0.01	ND
Barium (Ba)	-	mg/kg	0.25	ND
Lanthanum (La)	-	mg/kg	0.025	ND
Europium (Eu)	-	mg/kg	0.025	ND
Gadolinium (Gd)	-	mg/kg	0.025	ND
Terbium (Tb)	-	mg/kg	0.025	ND
Lanthanum (La)+ Europium (Eu)+ Gadolinium (Gd)+ Terbium(Tb)	-	mg/kg	-	ND

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Sample 003

Test Item(s)	Max. Permissible Limit	Unit	MDL	Test result
Migration times	-	-	-	2nd
Area/Volume	-	dm²/kg	-	4.0
Chromium (Cr)	-	mg/kg	0.01	ND
Arsenic (As)	-	mg/kg	0.01	ND
Cadmium (Cd)	-	mg/kg	0.002	ND
Mercury (Hg)	-	mg/kg	0.01	ND
Lead (Pb)	-	mg/kg	0.01	ND
Lithium (Li)	-	mg/kg	0.1	ND
Aluminum (Al)	-	mg/kg	0.1	ND
Manganese (Mn)	-	mg/kg	0.1	ND
Iron (Fe)	-	mg/kg	5	ND
Cobalt (Co)	-	mg/kg	0.01	ND
Nickel (Ni)	-	mg/kg	0.01	ND
Copper (Cu)	-	mg/kg	0.25	ND
Zinc (Zn)	-	mg/kg	0.5	ND
Antimony (Sb)	-	mg/kg	0.01	ND
Barium (Ba)	-	mg/kg	0.25	ND
Lanthanum (La)	-	mg/kg	0.025	ND
Europium (Eu)	-	mg/kg	0.025	ND
Gadolinium (Gd)	-	mg/kg	0.025	ND
Terbium (Tb)	-	mg/kg	0.025	ND
Lanthanum (La)+ Europium (Eu)+ Gadolinium (Gd)+ Terbium(Tb)	-	mg/kg	-	ND

Sample 004

Test Item(s)	Max. Permissible Limit	Unit	MDL	Test result
Migration times	-	-	-	2nd
Area/Volume	-	dm²/kg	-	3.9
Chromium (Cr)	-	mg/kg	0.01	ND
Arsenic (As)	-	mg/kg	0.01	ND
Cadmium (Cd)	-	mg/kg	0.002	ND
Mercury (Hg)	-	mg/kg	0.01	ND
Lead (Pb)	-	mg/kg	0.01	ND
Lithium (Li)	-	mg/kg	0.1	ND

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Aluminum (Al)	-	mg/kg	0.1	ND
Manganese (Mn)	-	mg/kg	0.1	ND
Iron (Fe)	-	mg/kg	5	ND
Cobalt (Co)	-	mg/kg	0.01	ND
Nickel (Ni)	-	mg/kg	0.01	ND
Copper (Cu)	-	mg/kg	0.25	ND
Zinc (Zn)	-	mg/kg	0.5	ND
Antimony (Sb)	-	mg/kg	0.01	ND
Barium (Ba)	-	mg/kg	0.25	ND
Lanthanum (La)	-	mg/kg	0.025	ND
Europium (Eu)	-	mg/kg	0.025	ND
Gadolinium (Gd)	-	mg/kg	0.025	ND
Terbium (Tb)	-	mg/kg	0.025	ND
Lanthanum (La)+ Europium (Eu)+ Gadolinium (Gd)+ Terbium(Tb)	-	mg/kg	-	ND

Sample 005

Test Item(s)	Max. Permissible Limit	Unit	MDL	Test result
Migration times	-	-	-	2nd
Area/Volume	-	dm²/kg	-	4.0
Chromium (Cr)	-	mg/kg	0.01	ND
Arsenic (As)	-	mg/kg	0.01	ND
Cadmium (Cd)	-	mg/kg	0.002	ND
Mercury (Hg)	-	mg/kg	0.01	ND
Lead (Pb)	-	mg/kg	0.01	ND
Lithium (Li)	-	mg/kg	0.1	ND
Aluminum (Al)	-	mg/kg	0.1	ND
Manganese (Mn)	-	mg/kg	0.1	ND
Iron (Fe)	-	mg/kg	5	ND
Cobalt (Co)	-	mg/kg	0.01	ND
Nickel (Ni)	-	mg/kg	0.01	ND
Copper (Cu)	-	mg/kg	0.25	ND
Zinc (Zn)	-	mg/kg	0.5	ND
Antimony (Sb)	-	mg/kg	0.01	ND
Barium (Ba)	-	mg/kg	0.25	ND
Lanthanum (La)	-	mg/kg	0.025	ND
Europium (Eu)	-	mg/kg	0.025	ND
Gadolinium (Gd)	-	mg/kg	0.025	ND
Terbium (Tb)	-	mg/kg	0.025	ND

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Lanthanum (La)+ Europium (Eu)+ Gadolinium (Gd)+ Terbium(Tb)	-	mg/kg	-	ND

Sample 006

Test Item(s)	Max. Permissible Limit	Unit	MDL	Test result
Migration times	-	-	-	2nd
Area/Volume	-	dm²/kg	-	5.0
Chromium (Cr)	-	mg/kg	0.01	ND
Arsenic (As)	-	mg/kg	0.01	ND
Cadmium (Cd)	-	mg/kg	0.002	ND
Mercury (Hg)	-	mg/kg	0.01	ND
Lead (Pb)	-	mg/kg	0.01	ND
Lithium (Li)	-	mg/kg	0.1	ND
Aluminum (Al)	-	mg/kg	0.1	ND
Manganese (Mn)	-	mg/kg	0.1	ND
Iron (Fe)	-	mg/kg	5	ND
Cobalt (Co)	-	mg/kg	0.01	ND
Nickel (Ni)	-	mg/kg	0.01	ND
Copper (Cu)	-	mg/kg	0.25	ND
Zinc (Zn)	-	mg/kg	0.5	ND
Antimony (Sb)	-	mg/kg	0.01	ND
Barium (Ba)	-	mg/kg	0.25	ND
Lanthanum (La)	-	mg/kg	0.025	ND
Europium (Eu)	-	mg/kg	0.025	ND
Gadolinium (Gd)	-	mg/kg	0.025	ND
Terbium (Tb)	-	mg/kg	0.025	ND
Lanthanum (La)+ Europium (Eu)+ Gadolinium (Gd)+ Terbium(Tb)	-	mg/kg	-	ND

Sample 007

Test Item(s)	Max. Permissible Limit	Unit	MDL	Test result
Migration times	-	-	-	2nd
Area/Volume	-	dm²/kg	-	3.9
Chromium (Cr)	-	mg/kg	0.01	ND
Arsenic (As)	-	mg/kg	0.01	ND
Cadmium (Cd)	-	mg/kg	0.002	ND
Mercury (Hg)	-	mg/kg	0.01	ND

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Lead (Pb)	-	mg/kg	0.01	ND
Lithium (Li)	-	mg/kg	0.1	ND
Aluminum (Al)	-	mg/kg	0.1	ND
Manganese (Mn)	-	mg/kg	0.1	ND
Iron (Fe)	-	mg/kg	5	ND
Cobalt (Co)	-	mg/kg	0.01	ND
Nickel (Ni)	-	mg/kg	0.01	ND
Copper (Cu)	-	mg/kg	0.25	ND
Zinc (Zn)	-	mg/kg	0.5	ND
Antimony (Sb)	-	mg/kg	0.01	ND
Barium (Ba)	-	mg/kg	0.25	ND
Lanthanum (La)	-	mg/kg	0.025	ND
Europium (Eu)	-	mg/kg	0.025	ND
Gadolinium (Gd)	-	mg/kg	0.025	ND
Terbium (Tb)	-	mg/kg	0.025	ND
Lanthanum (La)+ Europium (Eu)+ Gadolinium (Gd)+ Terbium(Tb)	-	mg/kg	-	ND

Sample 008

Test Item(s)	Max. Permissible Limit	Unit	MDL	Test result
Migration times	-	-	-	2nd
Area/Volume	-	dm^2/kg	-	3.9
Chromium (Cr)	-	mg/kg	0.01	ND
Arsenic (As)	-	mg/kg	0.01	ND
Cadmium (Cd)	-	mg/kg	0.002	ND
Mercury (Hg)	-	mg/kg	0.01	ND
Lead (Pb)	-	mg/kg	0.01	ND
Lithium (Li)	-	mg/kg	0.1	ND
Aluminum (Al)	-	mg/kg	0.1	ND
Manganese (Mn)	-	mg/kg	0.1	ND
Iron (Fe)	-	mg/kg	5	ND
Cobalt (Co)	-	mg/kg	0.01	ND
Nickel (Ni)	-	mg/kg	0.01	ND
Copper (Cu)	-	mg/kg	0.25	ND
Zinc (Zn)	-	mg/kg	0.5	ND
Antimony (Sb)	-	mg/kg	0.01	ND
Barium (Ba)	-	mg/kg	0.25	ND
Lanthanum (La)	-	mg/kg	0.025	ND
Europium (Eu)	-	mg/kg	0.025	ND

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Gadolinium (Gd)	-	mg/kg	0.025	ND
Terbium (Tb)	-	mg/kg	0.025	ND
Lanthanum (La)+ Europium (Eu)+ Gadolinium (Gd)+ Terbium(Tb)	-	mg/kg	-	ND

Sample 009

Test Item(s)	Max. Permissible Limit	Unit	MDL	Test result
Migration times	-	-	-	2nd
Area/Volume	-	dm²/kg	-	4.0
Chromium (Cr)	-	mg/kg	0.01	ND
Arsenic (As)	-	mg/kg	0.01	ND
Cadmium (Cd)	-	mg/kg	0.002	ND
Mercury (Hg)	-	mg/kg	0.01	ND
Lead (Pb)	-	mg/kg	0.01	ND
Lithium (Li)	-	mg/kg	0.1	ND
Aluminum (Al)	-	mg/kg	0.1	ND
Manganese (Mn)	-	mg/kg	0.1	ND
Iron (Fe)	-	mg/kg	5	ND
Cobalt (Co)	-	mg/kg	0.01	ND
Nickel (Ni)	-	mg/kg	0.01	ND
Copper (Cu)	-	mg/kg	0.25	ND
Zinc (Zn)	-	mg/kg	0.5	ND
Antimony (Sb)	-	mg/kg	0.01	ND
Barium (Ba)	-	mg/kg	0.25	ND
Lanthanum (La)	-	mg/kg	0.025	ND
Europium (Eu)	-	mg/kg	0.025	ND
Gadolinium (Gd)	-	mg/kg	0.025	ND
Terbium (Tb)	-	mg/kg	0.025	ND
Lanthanum (La)+ Europium (Eu)+ Gadolinium (Gd)+ Terbium(Tb)	-	mg/kg	-	ND

Sample 010

Test Item(s)	Max. Permissible Limit	Unit	MDL	Test result
Migration times	-	-	-	2nd
Area/Volume	-	dm²/kg	-	4.0
Chromium (Cr)	-	mg/kg	0.01	ND
Arsenic (As)	-	mg/kg	0.01	ND

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Cadmium (Cd)	-	mg/kg	0.002	ND
Mercury (Hg)	-	mg/kg	0.01	ND
Lead (Pb)	-	mg/kg	0.01	ND
Lithium (Li)	-	mg/kg	0.1	ND
Aluminum (Al)	-	mg/kg	0.1	ND
Manganese (Mn)	-	mg/kg	0.1	ND
Iron (Fe)	-	mg/kg	5	ND
Cobalt (Co)	-	mg/kg	0.01	ND
Nickel (Ni)	-	mg/kg	0.01	ND
Copper (Cu)	-	mg/kg	0.25	ND
Zinc (Zn)	-	mg/kg	0.5	ND
Antimony (Sb)	-	mg/kg	0.01	ND
Barium (Ba)	-	mg/kg	0.25	ND
Lanthanum (La)	-	mg/kg	0.025	ND
Europium (Eu)	-	mg/kg	0.025	ND
Gadolinium (Gd)	-	mg/kg	0.025	ND
Terbium (Tb)	-	mg/kg	0.025	ND
Lanthanum (La)+ Europium (Eu)+ Gadolinium (Gd)+ Terbium(Tb)	-	mg/kg	-	ND

Sample 011

Test Item(s)	Max. Permissible Limit	Unit	MDL	Test result
Migration times	-	-	-	2nd
Area/Volume	-	dm²/kg	-	1.2
Chromium (Cr)	-	mg/kg	0.01	ND
Arsenic (As)	-	mg/kg	0.01	ND
Cadmium (Cd)	-	mg/kg	0.002	ND
Mercury (Hg)	-	mg/kg	0.01	ND
Lead (Pb)	-	mg/kg	0.01	ND
Lithium (Li)	-	mg/kg	0.1	ND
Aluminum (Al)	-	mg/kg	0.1	ND
Manganese (Mn)	-	mg/kg	0.1	ND
Iron (Fe)	-	mg/kg	5	ND
Cobalt (Co)	-	mg/kg	0.01	ND
Nickel (Ni)	-	mg/kg	0.01	ND
Copper (Cu)	-	mg/kg	0.25	ND
Zinc (Zn)	-	mg/kg	0.5	ND
Antimony (Sb)	-	mg/kg	0.01	ND
Barium (Ba)	-	mg/kg	0.25	ND

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Lanthanum (La)	-	mg/kg	0.025	ND
Europium (Eu)	-	mg/kg	0.025	ND
Gadolinium (Gd)	-	mg/kg	0.025	ND
Terbium (Tb)	-	mg/kg	0.025	ND
Lanthanum (La)+ Europium (Eu)+ Gadolinium (Gd)+ Terbium(Tb)	-	mg/kg	-	ND

Sample 012

Test Item(s)	Max. Permissible Limit	Unit	MDL	Test result
Migration times	-	-	-	2nd
Area/Volume	-	dm²/kg	-	7.1
Chromium (Cr)	-	mg/kg	0.01	ND
Arsenic (As)	-	mg/kg	0.01	ND
Cadmium (Cd)	-	mg/kg	0.002	ND
Mercury (Hg)	-	mg/kg	0.01	ND
Lead (Pb)	-	mg/kg	0.01	ND
Lithium (Li)	-	mg/kg	0.1	ND
Aluminum (Al)	-	mg/kg	0.1	ND
Manganese (Mn)	-	mg/kg	0.1	ND
Iron (Fe)	-	mg/kg	5	ND
Cobalt (Co)	-	mg/kg	0.01	ND
Nickel (Ni)	-	mg/kg	0.01	ND
Copper (Cu)	-	mg/kg	0.25	ND
Zinc (Zn)	-	mg/kg	0.5	ND
Antimony (Sb)	-	mg/kg	0.01	ND
Barium (Ba)	-	mg/kg	0.25	ND
Lanthanum (La)	-	mg/kg	0.025	ND
Europium (Eu)	-	mg/kg	0.025	ND
Gadolinium (Gd)	-	mg/kg	0.025	ND
Terbium (Tb)	-	mg/kg	0.025	ND
Lanthanum (La)+ Europium (Eu)+ Gadolinium (Gd)+ Terbium(Tb)	-	mg/kg	-	ND

Sample 024

Test Item(s)	Max. Permissible Limit	Unit	MDL	Test result
Migration times	-	-	-	2nd
Area/Volume	-	dm²/kg	-	7.1

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Chromium (Cr)	-	mg/kg	0.01	ND
Arsenic (As)	-	mg/kg	0.01	ND
Cadmium (Cd)	-	mg/kg	0.002	ND
Mercury (Hg)	-	mg/kg	0.01	ND
Lead (Pb)	-	mg/kg	0.01	ND
Lithium (Li)	-	mg/kg	0.1	ND
Aluminum (Al)	-	mg/kg	0.1	ND
Manganese (Mn)	-	mg/kg	0.1	ND
Iron (Fe)	-	mg/kg	5	ND
Cobalt (Co)	-	mg/kg	0.01	ND
Nickel (Ni)	-	mg/kg	0.01	ND
Copper (Cu)	-	mg/kg	0.25	ND
Zinc (Zn)	-	mg/kg	0.5	ND
Antimony (Sb)	-	mg/kg	0.01	ND
Barium (Ba)	-	mg/kg	0.25	ND
Lanthanum (La)	-	mg/kg	0.025	ND
Europium (Eu)	-	mg/kg	0.025	ND
Gadolinium (Gd)	-	mg/kg	0.025	ND
Terbium (Tb)	-	mg/kg	0.025	ND
Lanthanum (La)+ Europium (Eu)+ Gadolinium (Gd)+ Terbium(Tb)	-	mg/kg	-	ND

Sample 025

Test Item(s)	Max. Permissible Limit	Unit	MDL	Test result
Migration times	-	-	-	2nd
Area/Volume	-	dm²/kg	-	7.1
Chromium (Cr)	-	mg/kg	0.01	ND
Arsenic (As)	-	mg/kg	0.01	ND
Cadmium (Cd)	-	mg/kg	0.002	ND
Mercury (Hg)	-	mg/kg	0.01	ND
Lead (Pb)	-	mg/kg	0.01	ND
Lithium (Li)	-	mg/kg	0.1	ND
Aluminum (Al)	-	mg/kg	0.1	ND
Manganese (Mn)	-	mg/kg	0.1	ND
Iron (Fe)	-	mg/kg	5	ND
Cobalt (Co)	-	mg/kg	0.01	ND
Nickel (Ni)	-	mg/kg	0.01	ND
Copper (Cu)	-	mg/kg	0.25	ND
Zinc (Zn)	-	mg/kg	0.5	ND

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Antimony (Sb)	-	mg/kg	0.01	ND
Barium (Ba)	-	mg/kg	0.25	ND
Lanthanum (La)	-	mg/kg	0.025	ND
Europium (Eu)	-	mg/kg	0.025	ND
Gadolinium (Gd)	-	mg/kg	0.025	ND
Terbium (Tb)	-	mg/kg	0.025	ND
Lanthanum (La)+ Europium (Eu)+ Gadolinium (Gd)+ Terbium(Tb)	-	mg/kg	-	ND

Sample 001

Test Item(s)	Max. Permissible Limit	Unit	MDL	Test result
Migration times	-	-	-	3rd
Area/Volume	-	dm²/kg	-	5.1
Chromium (Cr)	ND	mg/kg	0.01	ND
Arsenic (As)	ND	mg/kg	0.01	ND
Cadmium (Cd)	ND	mg/kg	0.002	ND
Mercury (Hg)	ND	mg/kg	0.01	ND
Lead (Pb)	ND	mg/kg	0.01	ND
Lithium (Li)	0.6	mg/kg	0.1	ND
Aluminum (Al)	1	mg/kg	0.1	ND
Manganese (Mn)	0.6	mg/kg	0.1	ND
Iron (Fe)	48	mg/kg	5	ND
Cobalt (Co)	0.05	mg/kg	0.01	ND
Nickel (Ni)	0.02	mg/kg	0.01	ND
Copper (Cu)	5	mg/kg	0.25	ND
Zinc (Zn)	5	mg/kg	0.5	ND
Antimony (Sb)	0.04	mg/kg	0.01	ND
Barium (Ba)	1	mg/kg	0.25	ND
Lanthanum (La)	-	mg/kg	0.025	ND
Europium (Eu)	-	mg/kg	0.025	ND
Gadolinium (Gd)	-	mg/kg	0.025	ND
Terbium (Tb)	-	mg/kg	0.025	ND
Lanthanum (La)+ Europium (Eu)+ Gadolinium (Gd)+ Terbium(Tb)	0.05	mg/kg	-	ND
Stability				**YES**
Comment				**PASS**

Sample 002

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Test Item(s)	Max. Permissible Limit	Unit	MDL	Test result
Migration times	-	-	-	3rd
Area/Volume	-	dm²/kg	-	5.1
Chromium (Cr)	ND	mg/kg	0.01	ND
Arsenic (As)	ND	mg/kg	0.01	ND
Cadmium (Cd)	ND	mg/kg	0.002	ND
Mercury (Hg)	ND	mg/kg	0.01	ND
Lead (Pb)	ND	mg/kg	0.01	ND
Lithium (Li)	0.6	mg/kg	0.1	ND
Aluminum (Al)	1	mg/kg	0.1	ND
Manganese (Mn)	0.6	mg/kg	0.1	ND
Iron (Fe)	48	mg/kg	5	ND
Cobalt (Co)	0.05	mg/kg	0.01	ND
Nickel (Ni)	0.02	mg/kg	0.01	ND
Copper (Cu)	5	mg/kg	0.25	ND
Zinc (Zn)	5	mg/kg	0.5	ND
Antimony (Sb)	0.04	mg/kg	0.01	ND
Barium (Ba)	1	mg/kg	0.25	ND
Lanthanum (La)	-	mg/kg	0.025	ND
Europium (Eu)	-	mg/kg	0.025	ND
Gadolinium (Gd)	-	mg/kg	0.025	ND
Terbium (Tb)	-	mg/kg	0.025	ND
Lanthanum (La)+ Europium (Eu)+ Gadolinium (Gd)+ Terbium(Tb)	0.05	mg/kg	-	ND
Stability				**YES**
Comment				**PASS**

Sample 003

Test Item(s)	Max. Permissible Limit	Unit	MDL	Test result
Migration times	-	-	-	3rd
Area/Volume	-	dm²/kg	-	4.0
Chromium (Cr)	ND	mg/kg	0.01	ND
Arsenic (As)	ND	mg/kg	0.01	ND
Cadmium (Cd)	ND	mg/kg	0.002	ND
Mercury (Hg)	ND	mg/kg	0.01	ND
Lead (Pb)	ND	mg/kg	0.01	ND
Lithium (Li)	0.6	mg/kg	0.1	ND

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Aluminum (Al)	1	mg/kg	0.1	ND
Manganese (Mn)	0.6	mg/kg	0.1	ND
Iron (Fe)	48	mg/kg	5	ND
Cobalt (Co)	0.05	mg/kg	0.01	ND
Nickel (Ni)	0.02	mg/kg	0.01	ND
Copper (Cu)	5	mg/kg	0.25	ND
Zinc (Zn)	5	mg/kg	0.5	ND
Antimony (Sb)	0.04	mg/kg	0.01	ND
Barium (Ba)	1	mg/kg	0.25	ND
Lanthanum (La)	-	mg/kg	0.025	ND
Europium (Eu)	-	mg/kg	0.025	ND
Gadolinium (Gd)	-	mg/kg	0.025	ND
Terbium (Tb)	-	mg/kg	0.025	ND
Lanthanum (La)+ Europium (Eu)+ Gadolinium (Gd)+ Terbium(Tb)	0.05	mg/kg	-	ND
Stability				**YES**
Comment				**PASS**

Sample 004

Test Item(s)	Max. Permissible Limit	Unit	MDL	Test result
Migration times	-	-	-	3rd
Area/Volume	-	dm^2/kg	-	3.9
Chromium (Cr)	ND	mg/kg	0.01	ND
Arsenic (As)	ND	mg/kg	0.01	ND
Cadmium (Cd)	ND	mg/kg	0.002	ND
Mercury (Hg)	ND	mg/kg	0.01	ND
Lead (Pb)	ND	mg/kg	0.01	ND
Lithium (Li)	0.6	mg/kg	0.1	ND
Aluminum (Al)	1	mg/kg	0.1	ND
Manganese (Mn)	0.6	mg/kg	0.1	ND
Iron (Fe)	48	mg/kg	5	ND
Cobalt (Co)	0.05	mg/kg	0.01	ND
Nickel (Ni)	0.02	mg/kg	0.01	ND
Copper (Cu)	5	mg/kg	0.25	ND
Zinc (Zn)	5	mg/kg	0.5	ND
Antimony (Sb)	0.04	mg/kg	0.01	ND
Barium (Ba)	1	mg/kg	0.25	ND
Lanthanum (La)	-	mg/kg	0.025	ND
Europium (Eu)	-	mg/kg	0.025	ND

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Gadolinium (Gd)	-	mg/kg	0.025	ND
Terbium (Tb)	-	mg/kg	0.025	ND
Lanthanum (La)+ Europium (Eu)+ Gadolinium (Gd)+ Terbium(Tb)	0.05	mg/kg	-	ND
Stability				**YES**
Comment				**PASS**

Sample 005

Test Item(s)	Max. Permissible Limit	Unit	MDL	Test result
Migration times	-	-	-	3rd
Area/Volume	-	dm²/kg	-	4.0
Chromium (Cr)	ND	mg/kg	0.01	ND
Arsenic (As)	ND	mg/kg	0.01	ND
Cadmium (Cd)	ND	mg/kg	0.002	ND
Mercury (Hg)	ND	mg/kg	0.01	ND
Lead (Pb)	ND	mg/kg	0.01	ND
Lithium (Li)	0.6	mg/kg	0.1	ND
Aluminum (Al)	1	mg/kg	0.1	ND
Manganese (Mn)	0.6	mg/kg	0.1	ND
Iron (Fe)	48	mg/kg	5	ND
Cobalt (Co)	0.05	mg/kg	0.01	ND
Nickel (Ni)	0.02	mg/kg	0.01	ND
Copper (Cu)	5	mg/kg	0.25	ND
Zinc (Zn)	5	mg/kg	0.5	ND
Antimony (Sb)	0.04	mg/kg	0.01	ND
Barium (Ba)	1	mg/kg	0.25	ND
Lanthanum (La)	-	mg/kg	0.025	ND
Europium (Eu)	-	mg/kg	0.025	ND
Gadolinium (Gd)	-	mg/kg	0.025	ND
Terbium (Tb)	-	mg/kg	0.025	ND
Lanthanum (La)+ Europium (Eu)+ Gadolinium (Gd)+ Terbium(Tb)	0.05	mg/kg	-	ND
Stability				**YES**
Comment				**PASS**

Sample 006

Test Item(s)	Max. Permissible Limit	Unit	MDL	Test result

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Migration times	-	-	-	3rd
Area/Volume	-	dm²/kg	-	5.0
Chromium (Cr)	ND	mg/kg	0.01	ND
Arsenic (As)	ND	mg/kg	0.01	ND
Cadmium (Cd)	ND	mg/kg	0.002	ND
Mercury (Hg)	ND	mg/kg	0.01	ND
Lead (Pb)	ND	mg/kg	0.01	ND
Lithium (Li)	0.6	mg/kg	0.1	ND
Aluminum (Al)	1	mg/kg	0.1	ND
Manganese (Mn)	0.6	mg/kg	0.1	ND
Iron (Fe)	48	mg/kg	5	ND
Cobalt (Co)	0.05	mg/kg	0.01	ND
Nickel (Ni)	0.02	mg/kg	0.01	ND
Copper (Cu)	5	mg/kg	0.25	ND
Zinc (Zn)	5	mg/kg	0.5	ND
Antimony (Sb)	0.04	mg/kg	0.01	ND
Barium (Ba)	1	mg/kg	0.25	ND
Lanthanum (La)	-	mg/kg	0.025	ND
Europium (Eu)	-	mg/kg	0.025	ND
Gadolinium (Gd)	-	mg/kg	0.025	ND
Terbium (Tb)	-	mg/kg	0.025	ND
Lanthanum (La)+ Europium (Eu)+ Gadolinium (Gd)+ Terbium(Tb)	0.05	mg/kg	-	ND
Stability				**YES**
Comment				**PASS**

Sample 007

Test Item(s)	Max. Permissible Limit	Unit	MDL	Test result
Migration times	-	-	-	3rd
Area/Volume	-	dm²/kg	-	3.9
Chromium (Cr)	ND	mg/kg	0.01	ND
Arsenic (As)	ND	mg/kg	0.01	ND
Cadmium (Cd)	ND	mg/kg	0.002	ND
Mercury (Hg)	ND	mg/kg	0.01	ND
Lead (Pb)	ND	mg/kg	0.01	ND
Lithium (Li)	0.6	mg/kg	0.1	ND
Aluminum (Al)	1	mg/kg	0.1	ND
Manganese (Mn)	0.6	mg/kg	0.1	ND
Iron (Fe)	48	mg/kg	5	ND

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Cobalt (Co)	0.05	mg/kg	0.01	ND
Nickel (Ni)	0.02	mg/kg	0.01	ND
Copper (Cu)	5	mg/kg	0.25	ND
Zinc (Zn)	5	mg/kg	0.5	ND
Antimony (Sb)	0.04	mg/kg	0.01	ND
Barium (Ba)	1	mg/kg	0.25	ND
Lanthanum (La)	-	mg/kg	0.025	ND
Europium (Eu)	-	mg/kg	0.025	ND
Gadolinium (Gd)	-	mg/kg	0.025	ND
Terbium (Tb)	-	mg/kg	0.025	ND
Lanthanum (La)+ Europium (Eu)+ Gadolinium (Gd)+ Terbium(Tb)	0.05	mg/kg	-	ND
Stability				**YES**
Comment				**PASS**

Sample 008

Test Item(s)	Max. Permissible Limit	Unit	MDL	Test result
Migration times	-	-	-	3rd
Area/Volume	-	dm^2/kg	-	3.9
Chromium (Cr)	ND	mg/kg	0.01	ND
Arsenic (As)	ND	mg/kg	0.01	ND
Cadmium (Cd)	ND	mg/kg	0.002	ND
Mercury (Hg)	ND	mg/kg	0.01	ND
Lead (Pb)	ND	mg/kg	0.01	ND
Lithium (Li)	0.6	mg/kg	0.1	ND
Aluminum (Al)	1	mg/kg	0.1	ND
Manganese (Mn)	0.6	mg/kg	0.1	ND
Iron (Fe)	48	mg/kg	5	ND
Cobalt (Co)	0.05	mg/kg	0.01	ND
Nickel (Ni)	0.02	mg/kg	0.01	ND
Copper (Cu)	5	mg/kg	0.25	ND
Zinc (Zn)	5	mg/kg	0.5	ND
Antimony (Sb)	0.04	mg/kg	0.01	ND
Barium (Ba)	1	mg/kg	0.25	ND
Lanthanum (La)	-	mg/kg	0.025	ND
Europium (Eu)	-	mg/kg	0.025	ND
Gadolinium (Gd)	-	mg/kg	0.025	ND
Terbium (Tb)	-	mg/kg	0.025	ND

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Lanthanum (La)+ Europium (Eu)+ Gadolinium (Gd)+ Terbium(Tb)	0.05	mg/kg	-	ND
Stability				**YES**
Comment				**PASS**

Sample 009

Test Item(s)	Max. Permissible Limit	Unit	MDL	Test result
Migration times	-	-	-	3rd
Area/Volume	-	dm²/kg	-	4.0
Chromium (Cr)	ND	mg/kg	0.01	ND
Arsenic (As)	ND	mg/kg	0.01	ND
Cadmium (Cd)	ND	mg/kg	0.002	ND
Mercury (Hg)	ND	mg/kg	0.01	ND
Lead (Pb)	ND	mg/kg	0.01	ND
Lithium (Li)	0.6	mg/kg	0.1	ND
Aluminum (Al)	1	mg/kg	0.1	ND
Manganese (Mn)	0.6	mg/kg	0.1	ND
Iron (Fe)	48	mg/kg	5	ND
Cobalt (Co)	0.05	mg/kg	0.01	ND
Nickel (Ni)	0.02	mg/kg	0.01	ND
Copper (Cu)	5	mg/kg	0.25	ND
Zinc (Zn)	5	mg/kg	0.5	ND
Antimony (Sb)	0.04	mg/kg	0.01	ND
Barium (Ba)	1	mg/kg	0.25	ND
Lanthanum (La)	-	mg/kg	0.025	ND
Europium (Eu)	-	mg/kg	0.025	ND
Gadolinium (Gd)	-	mg/kg	0.025	ND
Terbium (Tb)	-	mg/kg	0.025	ND
Lanthanum (La)+ Europium (Eu)+ Gadolinium (Gd)+ Terbium(Tb)	0.05	mg/kg	-	ND
Stability				**YES**
Comment				**PASS**

Sample 010

Test Item(s)	Max. Permissible Limit	Unit	MDL	Test result
Migration times	-	-	-	3rd
Area/Volume	-	dm²/kg	-	4.0

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Chromium (Cr)	ND	mg/kg	0.01	ND
Arsenic (As)	ND	mg/kg	0.01	ND
Cadmium (Cd)	ND	mg/kg	0.002	ND
Mercury (Hg)	ND	mg/kg	0.01	ND
Lead (Pb)	ND	mg/kg	0.01	ND
Lithium (Li)	0.6	mg/kg	0.1	ND
Aluminum (Al)	1	mg/kg	0.1	ND
Manganese (Mn)	0.6	mg/kg	0.1	ND
Iron (Fe)	48	mg/kg	5	ND
Cobalt (Co)	0.05	mg/kg	0.01	ND
Nickel (Ni)	0.02	mg/kg	0.01	ND
Copper (Cu)	5	mg/kg	0.25	ND
Zinc (Zn)	5	mg/kg	0.5	ND
Antimony (Sb)	0.04	mg/kg	0.01	ND
Barium (Ba)	1	mg/kg	0.25	ND
Lanthanum (La)	-	mg/kg	0.025	ND
Europium (Eu)	-	mg/kg	0.025	ND
Gadolinium (Gd)	-	mg/kg	0.025	ND
Terbium (Tb)	-	mg/kg	0.025	ND
Lanthanum (La)+ Europium (Eu)+ Gadolinium (Gd)+ Terbium(Tb)	0.05	mg/kg	-	ND
Stability				**YES**
Comment				**PASS**

Sample 011

Test Item(s)	Max. Permissible Limit	Unit	MDL	Test result
Migration times	-	-	-	3rd
Area/Volume	-	dm²/kg	-	1.2
Chromium (Cr)	ND	mg/kg	0.01	ND
Arsenic (As)	ND	mg/kg	0.01	ND
Cadmium (Cd)	ND	mg/kg	0.002	ND
Mercury (Hg)	ND	mg/kg	0.01	ND
Lead (Pb)	ND	mg/kg	0.01	ND
Lithium (Li)	0.6	mg/kg	0.1	ND
Aluminum (Al)	1	mg/kg	0.1	ND
Manganese (Mn)	0.6	mg/kg	0.1	ND
Iron (Fe)	48	mg/kg	5	ND
Cobalt (Co)	0.05	mg/kg	0.01	ND
Nickel (Ni)	0.02	mg/kg	0.01	ND

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Copper (Cu)	5	mg/kg	0.25	ND
Zinc (Zn)	5	mg/kg	0.5	ND
Antimony (Sb)	0.04	mg/kg	0.01	ND
Barium (Ba)	1	mg/kg	0.25	ND
Lanthanum (La)	-	mg/kg	0.025	ND
Europium (Eu)	-	mg/kg	0.025	ND
Gadolinium (Gd)	-	mg/kg	0.025	ND
Terbium (Tb)	-	mg/kg	0.025	ND
Lanthanum (La)+ Europium (Eu)+ Gadolinium (Gd)+ Terbium(Tb)	0.05	mg/kg	-	ND
Stability				**YES**
Comment				**PASS**

Sample 012

Test Item(s)	Max. Permissible Limit	Unit	MDL	Test result
Migration times	-	-	-	3rd
Area/Volume	-	dm²/kg	-	7.1
Chromium (Cr)	ND	mg/kg	0.01	ND
Arsenic (As)	ND	mg/kg	0.01	ND
Cadmium (Cd)	ND	mg/kg	0.002	ND
Mercury (Hg)	ND	mg/kg	0.01	ND
Lead (Pb)	ND	mg/kg	0.01	ND
Lithium (Li)	0.6	mg/kg	0.1	ND
Aluminum (Al)	1	mg/kg	0.1	ND
Manganese (Mn)	0.6	mg/kg	0.1	ND
Iron (Fe)	48	mg/kg	5	ND
Cobalt (Co)	0.05	mg/kg	0.01	ND
Nickel (Ni)	0.02	mg/kg	0.01	ND
Copper (Cu)	5	mg/kg	0.25	ND
Zinc (Zn)	5	mg/kg	0.5	ND
Antimony (Sb)	0.04	mg/kg	0.01	ND
Barium (Ba)	1	mg/kg	0.25	ND
Lanthanum (La)	-	mg/kg	0.025	ND
Europium (Eu)	-	mg/kg	0.025	ND
Gadolinium (Gd)	-	mg/kg	0.025	ND
Terbium (Tb)	-	mg/kg	0.025	ND
Lanthanum (La)+ Europium (Eu)+ Gadolinium (Gd)+ Terbium(Tb)	0.05	mg/kg	-	ND
Stability				**YES**

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Comment **PASS**

Sample 024

Test Item(s)	Max. Permissible Limit	Unit	MDL	Test result
Migration times	-	-	-	3rd
Area/Volume	-	dm²/kg	-	7.1
Chromium (Cr)	ND	mg/kg	0.01	ND
Arsenic (As)	ND	mg/kg	0.01	ND
Cadmium (Cd)	ND	mg/kg	0.002	ND
Mercury (Hg)	ND	mg/kg	0.01	ND
Lead (Pb)	ND	mg/kg	0.01	ND
Lithium (Li)	0.6	mg/kg	0.1	ND
Aluminum (Al)	1	mg/kg	0.1	ND
Manganese (Mn)	0.6	mg/kg	0.1	ND
Iron (Fe)	48	mg/kg	5	ND
Cobalt (Co)	0.05	mg/kg	0.01	ND
Nickel (Ni)	0.02	mg/kg	0.01	ND
Copper (Cu)	5	mg/kg	0.25	ND
Zinc (Zn)	5	mg/kg	0.5	ND
Antimony (Sb)	0.04	mg/kg	0.01	ND
Barium (Ba)	1	mg/kg	0.25	ND
Lanthanum (La)	-	mg/kg	0.025	ND
Europium (Eu)	-	mg/kg	0.025	ND
Gadolinium (Gd)	-	mg/kg	0.025	ND
Terbium (Tb)	-	mg/kg	0.025	ND
Lanthanum (La)+ Europium (Eu)+ Gadolinium (Gd)+ Terbium(Tb)	0.05	mg/kg	-	ND
Stability				**YES**
Comment				**PASS**

Sample 025

Test Item(s)	Max. Permissible Limit	Unit	MDL	Test result
Migration times	-	-	-	3rd
Area/Volume	-	dm²/kg	-	7.1
Chromium (Cr)	ND	mg/kg	0.01	ND
Arsenic (As)	ND	mg/kg	0.01	ND
Cadmium (Cd)	ND	mg/kg	0.002	ND

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Mercury (Hg)	ND	mg/kg	0.01	ND
Lead (Pb)	ND	mg/kg	0.01	ND
Lithium (Li)	0.6	mg/kg	0.1	ND
Aluminum (Al)	1	mg/kg	0.1	ND
Manganese (Mn)	0.6	mg/kg	0.1	ND
Iron (Fe)	48	mg/kg	5	ND
Cobalt (Co)	0.05	mg/kg	0.01	ND
Nickel (Ni)	0.02	mg/kg	0.01	ND
Copper (Cu)	5	mg/kg	0.25	ND
Zinc (Zn)	5	mg/kg	0.5	ND
Antimony (Sb)	0.04	mg/kg	0.01	ND
Barium (Ba)	1	mg/kg	0.25	ND
Lanthanum (La)	-	mg/kg	0.025	ND
Europium (Eu)	-	mg/kg	0.025	ND
Gadolinium (Gd)	-	mg/kg	0.025	ND
Terbium (Tb)	-	mg/kg	0.025	ND
Lanthanum (La)+ Europium (Eu)+ Gadolinium (Gd)+ Terbium(Tb)	0.05	mg/kg	-	ND
Stability				**YES**
Comment				**PASS**

Notes :

1. mg/kg = milligram per kilogram of foodstuff in contact with
2. °C = degree Celsius
3. MDL=Method Detection Limit
4. ND = Not Detected(less than MDL)

US FDA Generally Recognized As Safe (GRAS) Specifications in stainless steel-Total Chromium content

Test Method : SGS In-house method (GZTC CHEM-TOP-044-28 or GZTC CHEM-TOP-175-01), followed by ICP-OES or titration method.

Test Item(s)	Limit	Unit	MDL	*014*
Total Chromium	≥16	%(w/w)	0.01	18.63
Comment				**PASS**

Notes :

1. %(w/w) = percentage of weight by weight
2. MDL=Method Detection Limit
3. ND = Not Detected(less than MDL)

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Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004–Volatile organic matter (VOM)

Test Method : With reference to EN 14372:2004, Clause 6.3.3.

Test Item(s)	Limit	Unit	MDL	*013*
Volatile Compounds Content	0.5	%(w/w)	0.10	0.22
Comment				**PASS**

Notes :

1. %w/w = percentage of weight by weight
2. MDL=Method Detection Limit
3. ND= Not Detected(less than MDL)

Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004,Commission Regulation (EU) 2018/213 of 12 February 2018 amending Regulation (EU) No 10/2011-Total Content of Bisphenol A

Test Method : With reference to Part II Section D2 of Testing Methods for Foodstuffs, Implements, Containers and Packaging, Toys, Detergents, JETRO, Japan External Trade Organization, 2009 (Dichloromethane extraction by ultrasonic bath). Analysis was performed by HPLC-MS

Test Item(s)	CAS NO.	Limit	Unit	MDL	*006*	*011*	*012*
Total content of Bisphenol A	80-05-7	★	mg/kg	0.1	ND	ND	ND
Comment					**PASS**	**PASS**	**PASS**

Test Item(s)	CAS NO.	Limit	Unit	MDL	*013*	*015*	*016*
Total content of Bisphenol A	80-05-7	★	mg/kg	0.1	ND	ND	ND
Comment					**PASS**	**PASS**	**PASS**

Test Item(s)	CAS NO.	Limit	Unit	MDL	*017*	*018*	*019*
Total content of Bisphenol A	80-05-7	★	mg/kg	0.1	ND	ND	ND
Comment					**PASS**	**PASS**	**PASS**

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Test Item(s)	CAS NO.	Limit	Unit	MDL	*020*	*021*	*022*
Total content of Bisphenol A	80-05-7	★	mg/kg	0.1	ND	ND	ND
Comment					**PASS**	**PASS**	**PASS**

Test Item(s)	CAS NO.	Limit	Unit	MDL	*023*	*024*	*025*
Total content of Bisphenol A	80-05-7	★	mg/kg	0.1	ND	ND	ND
Comment					**PASS**	**PASS**	**PASS**

Notes :

1. mg/kg = milligram per kilogram
2. MDL=Method Detection Limit
3. ND= Not Detected(less than MDL)
4. ★ = Prohibited

FDA 21 CFR 177.1520–Maximum soluble fraction in xylene

Test Method : With reference to US FDA 21 CFR 177.1520 d(4)(ii).

Test Item(s)	Limit	Unit	MDL	*006*	*011*	*015*
Soluble fraction in Xylene	30	%(w/w)	0.5	15.8	5.8	20.7
Comment				**PASS**	**PASS**	**PASS**

Test Item(s)	Limit	Unit	MDL	*016*	*017*	*018*
Soluble fraction in Xylene	30	%(w/w)	0.5	18.8	20.0	19.4
Comment				**PASS**	**PASS**	**PASS**

Test Item(s)	Limit	Unit	MDL	*019*	*020*	*021*
Soluble fraction in Xylene	30	%(w/w)	0.5	19.0	20.3	17.7
Comment				**PASS**	**PASS**	**PASS**

Test Item(s)	Limit	Unit	MDL	*022*	*023*
Soluble fraction in Xylene	30	%(w/w)	0.5	18.4	19.2
Comment				**PASS**	**PASS**

Notes :

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1.%w/w = percentage of weight by weight
2.ND= Not Detected(less than MDL)

Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004,Council of Europe Resolution CM/Res(2013)9–Extractable heavy metal

Test Method : With reference to EN13130-1:2004 for selection of test method; analysis was performed by ICP-OES and ICP-MS.

Sample 014:

Simulant Used : 0.5% Citric acid (W/V) aqueous solution

Test Condition : 100 ℃ 24.0 hr(s)

The ratio of surface area to volume was : 7.2 dm²/kg

Test Item(s)	Limit	Unit	MDL	*1st + 2nd Migration*
Aluminium(Al)	35	mg/kg	0.2	ND
Antimony(Sb)	0.28	mg/kg	0.02	ND
Chromium(Cr)	1.75	mg/kg	0.1	ND
Cobalt(Co)	0.14	mg/kg	0.01	ND
Copper(Cu)	28	mg/kg	0.1	ND
Iron(Fe)	280	mg/kg	0.25	0.34
Manganese(Mn)	12.6	mg/kg	0.25	ND
Molybdenum(Mo)	0.84	mg/kg	0.02	ND
Nickel(Ni)	0.98	mg/kg	0.05	ND
Silver(Ag)	0.56	mg/kg	0.03	ND
Tin (Sn)	700	mg/kg	5	ND
Vanadium(V)	0.07	mg/kg	0.005	ND
Zinc(Zn)	35	mg/kg	1	ND
Arsenic(As)	0.014	mg/kg	0.001	ND
Barium(Ba)	8.4	mg/kg	0.25	ND
Beryllium(Be)	0.07	mg/kg	0.005	ND
Cadmium(Cd)	0.035	mg/kg	0.002	ND
Lead(Pb)	0.07	mg/kg	0.005	ND
Lithium(Li)	0.336	mg/kg	0.02	ND
Mercury(Hg)	0.021	mg/kg	0.002	ND
Thallium(Tl)	0.0007	mg/kg	0.0001	ND

Test Item(s)	Limit	Unit	MDL	*3rd Migration*
Aluminium(Al)	5	mg/kg	0.2	ND
Antimony(Sb)	0.04	mg/kg	0.02	ND
Chromium(Cr)	0.25	mg/kg	0.1	ND
Cobalt(Co)	0.02	mg/kg	0.01	ND
Copper(Cu)	4	mg/kg	0.1	ND
Iron(Fe)	40	mg/kg	0.25	ND

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Test Item(s)	Limit	Unit	MDL	*3rd Migration*
Manganese(Mn)	1.8	mg/kg	0.25	ND
Molybdenum(Mo)	0.12	mg/kg	0.02	ND
Nickel(Ni)	0.14	mg/kg	0.05	ND
Silver(Ag)	0.08	mg/kg	0.03	ND
Tin (Sn)	100	mg/kg	5	ND
Vanadium(V)	0.01	mg/kg	0.005	ND
Zinc(Zn)	5	mg/kg	1	ND
Arsenic(As)	0.002	mg/kg	0.001	ND
Barium(Ba)	1.2	mg/kg	0.25	ND
Beryllium(Be)	0.01	mg/kg	0.005	ND
Cadmium(Cd)	0.005	mg/kg	0.002	ND
Lead(Pb)	0.01	mg/kg	0.005	ND
Lithium(Li)	0.048	mg/kg	0.02	ND
Mercury(Hg)	0.003	mg/kg	0.002	ND
Thallium(Tl)	0.0001	mg/kg	0.0001	ND

Notes :

1.mg/kg = milligram per kilogram of foodstuff in contact with

2.MDL = Method Detection Limit

3.ND = Not Detected (< MDL)

4.According to Council of Europe Resolution CM/Res(2013)9, the result from 3rd migration shall comply with the Specific Release Limit (SRL) and the sum of 1st and 2nd migration shall not exceed seven times of SRL for repeated use articles

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Sample photo:



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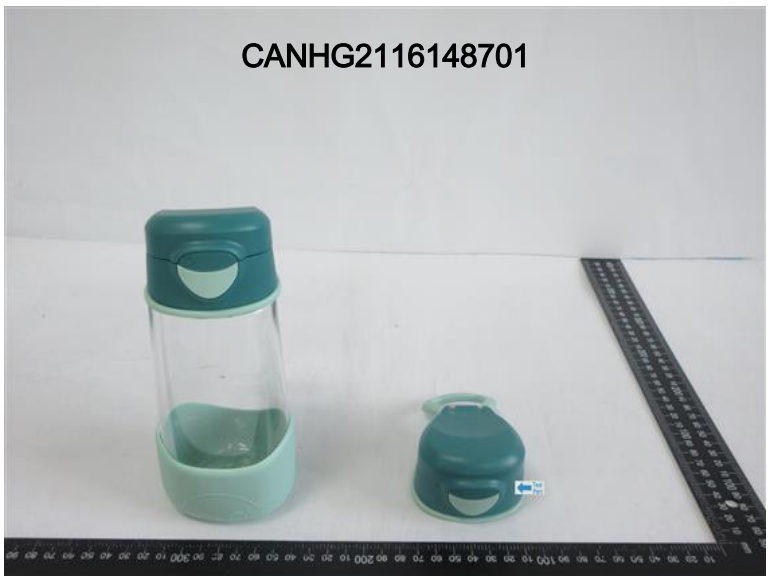
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