

TEST REPORT



Test Report No. GGN/H(FCM)/26/002534

Dated 2026.08.17

Sample Image(s) (As Received)

Component No. A1



Component No. A2

Sample A: Pearl Jar (115 ml x 6)
(690 ml) (Natural) (6 pc set)

TEST REPORT



TL-1082

Test Report No. GGN/H(FCM)/26/002534

Dated 2026.08.17

Applicant / Company Name : ALL TIME PLASTICS LIMITED
Address : Plot No. 377/1 (1&2) & 371/1(c), Kachigam Char Rasta, daman (U.T.) 396210
Attention / Contact Person : Zarir Patel
Date of Sample Receipt : Received on 2029.06.29 at 11:24 A.M.
Test Period : 2026.06.29 To 2026.08.17
Article / Sample Description : Pearl Jar (115 ml x 6) (690 ml) (Natural) (6 pc set)
Colour : Bottom - Natural, Lids in Blue
Product Type / End Use : Storage Container
Style No. : 8902084023567
Buyer : N.A.
Agent : N.A.
Supplier : N.A.
Season : N.A.
Country Of Origin : India
Country Of Destination : N.A.

Note:

1. The submitted sample(s) is / are Not Drawn by the Laboratory

2. Unless otherwise agreed upon, PASS or FAIL verdicts are given based on the measured values without any considerations of measurement uncertainties. Every test method has a measurement uncertainty which has been evaluated by the laboratory and are available on request. By taking measurement uncertainties into account, it might happen that measured values can neither be assessed as PASS nor as FAIL"

3. Disclaimer: The testing approach, the testing methods, and the reported results in this report demonstrate compliance or non-compliance to the client's requirements which were mutually agreed at the contract review and stipulated in the quotation.

The testing approach, the testing methods, and the reported results may not or only partially fulfil the associated requirements of the applicable regulations.

4. The laboratory will retain the sample(s) for 45 days except for the mandatory retention period specified by the Regulatory Bodies and unless otherwise specified by the client.

TEST REPORT



Test Report No. GGN/H(FCM)/26/002534

Dated 2026.08.17

Remarks:

1. Test(s) performed as requested by applicant.
2. Conclusion(s) of the test(s) was drawn as per compliance requirement(s) specified by applicant.
3. Test "Bisphenols and its derivatives" was subcontracted to TÜV SÜD South Asia Pvt. Ltd., Ranipet, India.
4. (##) Marked Test is not under ISO/IEC 17025:2017 accreditation.

Authorized By

Verma, Parvesh Kumar
(Authorised Signatory)

Authorized By

Atal Anand
(Authorised Signatory)

Please Contact:

For any technical issues: Anuradha Dhamija at :Anuradha.Dhamija@tuvsud.com

For any complaint: Ashima Sapra at: Ashima.Sapra@tuvsud.com

By accepting this document, the customer hereby agrees and accepts the 'Terms & Conditions' and the relevant 'Testing & Certification Regulations' of TÜV SÜD South Asia Pvt Ltd. which are available at Company's website at the link-<https://www.tuvsud.com/en-in/terms-and-conditions>

Note: The test report is electronically generated. Hence original signature is not required.

Note: (1) The results relate only to the items tested, (2) The test report shall not be reproduced except in full without the written approval of the laboratory (3) Any use for advertising purposes must be granted in writing. This technical report may only be quoted in full. This report is the result of a single examination of the object in question and is not generally applicable evaluation of the quality of other products in regular production. For further details, please see testing and certification regulation, chapter A-3.4. (4) The correctness of the information related to sample(s) in the Test Request Form/Customer letterhead/Email is the customer's responsibility. The laboratory reports the said information in the test report and is not liable for the same, (5) The testing conditions are followed as per the reported test standard. For additional test conditions apart from the reported test conditions laboratory can be contacted for details

Laboratory:
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Sector 20
Gurgaon – 122016

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Off Saki Vihar Road
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Mumbai – 400072. India

TEST REPORT



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Dated 2026.08.17

Summary of Test Result(s)

S. No.	Test(s)	Conclusion (#)
1.	Overall Migration	Pass
2.	Total Lead Content	Pass
3.	Total Cadmium Content	Pass
4.	Specific migration of heavy metals	Pass
5.	Determination of Volatile organic matter	Pass
6.	Bisphenols and its derivatives	Pass
7.	Leakage Test	Observation / Refer Result
8.	Freezer Safe Test	Pass
9.	Air Leakage Test	Observation / Refer Result
(#) For details regarding specification(s) / regulation(s) based on which compliance is decided, refer test details.		

Material list / List of material(s) (As confirmed by applicant)

Component No.	Component description	Material	Color	Remarks
Sample A - Pearl Jar (115 ml x 6) (690 ml) (Natural) (6 pc set)				
A1	Container	Plastic	Transparent	Result Incorporated as Component is same as A1 of Report No. GGN/H(FCM)/26/002360
A2	Lid	Plastic	Lids in Blue	-

Sampling plan (As requested by applicant)

S. No.	Test(s)	Component No.	
1.	Overall Migration	A1	A2
2.	Total Lead Content	A1	A2
3.	Total Cadmium Content	A1	A2
4.	Specific migration of heavy metals	A1	A2
5.	Determination of Volatile organic matter	A1	A2
6.	Bisphenols and its derivatives	A1	A2

TEST REPORT



Test Report No. GGN/H(FCM)/26/002534

Dated 2026.08.17

Test Result(s):

Overall Migration

Test Specification(s) / Regulation(s): Commission Regulation (EU) No. 10/2011 & its amendment (EU) 2025/351 and Framework regulation (EC) No 1935/2004.

Test method(s) adopted: EN 1186: 2022.

Simulant(s) used: Refer below.

Test condition(s): Refer below; (Repeated use /3 Migration).

Surface area to volume / Migration ratio: 1.23 dm² :100 ml

S. No.	Simulant	Test condition	Result (mg/dm ²) – Component No. A1			Stability	Conclusion
			1 st Mig.	2 nd Mig.	3 rd Mig.		
1.	3 % Acetic acid	70°C for 2 Hours	ND	ND	ND	Comply§	Pass
2.	10% Ethanol	70°C for 2 Hours	ND	ND	ND	Comply§	Pass
3.	95% Ethanol	60°C for 2 Hours	ND	ND	ND	Comply§	Pass
4.	Iso Octane	40°C for 30 minutes	ND	ND	ND	Comply§	Pass

Limit of quantification: 3.0 mg/dm²

Maximum Permissible Limit (mg/dm²): 10.0

Note:

1. The standard measurement uncertainty, u(m), of the analytical method is 20%.
2. § The compliance of the stability of the tested material shall be evaluated by applying the stability rule stated in point 3.3.2 under Chapter 3 of Annex V of Regulation (EU) No 10/2011 and its amendments. Please refer to Remark #1 in Appendix for further information.

Overall Migration

Test Specification(s) / Regulation(s): Commission Regulation (EU) No. 10/2011 & its amendment (EU) 2025/351 and Framework regulation (EC) No 1935/2004.

Test method(s) adopted: EN 1186: 2022.

Simulant(s) used: Refer below.

Test condition(s): Refer below; (Repeated use /3 Migration).

Surface area to volume / Migration ratio: 0.98dm² : 200ml

S. No.	Simulant	Test condition	Result (mg/dm ²) – Component No. A2			Stability	Conclusion
			1 st Mig.	2 nd Mig.	3 rd Mig.		
1.	3 % Acetic acid	70°C for 2 Hours	ND	ND	ND	Comply§	Pass
2.	10% Ethanol	70°C for 2 Hours	ND	ND	ND	Comply§	Pass
3.	95% Ethanol	60°C for 2 Hours	ND	ND	ND	Comply§	Pass
4.	Iso Octane	40°C for 30 minutes	ND	ND	ND	Comply§	Pass

Limit of quantification: 3.0 mg/dm²

Maximum Permissible Limit (mg/dm²): 10.0

Note:

1. The standard measurement uncertainty, u(m), of the analytical method is 20%.
2. § The compliance of the stability of the tested material shall be evaluated by applying the stability rule stated in point 3.3.2 under Chapter 3 of Annex V of Regulation (EU) No 10/2011 and its amendments. Please refer to Remark #1 in Appendix for further information.

TEST REPORT



Test Report No. GGN/H(FCM)/26/002534

Dated 2026.08.17

Total Lead Content

Test Specification(s) / Regulation(s): REACH Regulation (EC) No 1907/2006 (Annex XVII) & its amendments (Entry level / No.: 63)

Test method(s) adopted: GTP_Chem_CPS_25134C For Non - Metal Component / (Acid digestion followed by analysis using ICP-MS)

Equipment(s) used: Inductively Coupled Plasma – Mass Spectrometer (ICP – MS).

S. No.	Component No.	Test Result (mg/kg)	Limit of quantification (mg/kg)	Compliance Requirement(s) / Limit Max (mg/kg)	Conclusion
1.	A1	33.8	10.0	Less than 500	Pass
2.	A2	ND	10.0	Less than 500	Pass

Total Cadmium Content

Test Specification(s) / Regulation(s): REACH Regulation (EC) No 1907/2006 (Annex XVII) & its amendments (Entry level / No.: 23).

Test method(s) adopted: EN 16711-1:2016

Equipment(s) used: Inductively Coupled Plasma – Mass Spectrometer (ICP – MS).

S. No.	Component No.	Test Result (mg/kg)	Limit of Quantification (mg/kg)	Compliance Requirement(s) / Limit Max (mg/kg)	Conclusion
1.	A1	ND	10.0	Less than 100	Pass
2.	A2	ND	10.0	Less than 100	Pass

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Test Report No. GGN/H(FCM)/26/002534

Dated 2026.08.17

Specific migration of heavy metals

Test Specification(s) / Regulation(s): Commission Regulation (EU) 2020/1245 amending and Correcting Regulation (EU) 10/2011 & amendment (EU) 2025/351 Framework regulation (EC) No 1935/2004.

Test method(s) adopted: EN 13130-1:2004 for exposure part followed by analysis using ICP – MS.

Simulant(s) used: 3% Acetic Acid

Test condition(s): 70°C for 2 hours ; (Repeated use /3 Migration).

Equipment(s) used: ICP – MS (Inductively Coupled Plasma – Mass Spectrometer).

Surface area to volume / Migration ratio: 1.23 dm²:100 ml

S. No	Heavy metal	Result (mg/kg) (*) – Component No. A1			Limit of Quantification (mg/kg)	Compliance requirement Limit Max. (mg/kg)	Stability	Conclusion
		1 st Mig.	2 nd Mig.	3 rd Mig.				
1.	Aluminium (as Al)	ND	ND	ND	0.1	1	Comply§	Pass
2.	Antimony (as Sb)	ND	ND	ND	0.01	0.04	Comply§	Pass
3.	Arsenic (As)	ND	ND	ND	0.01	ND(DL:0.01)	Comply§	Pass
4.	Barium (as Ba)	ND	ND	ND	0.1	1	Comply§	Pass
5.	Cadmium (as Cd)	ND	ND	ND	0.002	ND (DL:0.002)	Comply§	Pass
6.	Chromium (as Cr)	ND	ND	ND	0.01	ND (DL:0.01)	Comply§	Pass
7.	Cobalt (as Co)	ND	ND	ND	0.01	0.05	Comply§	Pass
8.	Copper (as Cu)	ND	ND	ND	0.5	5	Comply§	Pass
9.	Europium (as Eu)	ND	ND	ND	0.01	Sum of (Eu+Gd+La+ Tb): < 0.05 mg/kg	Comply§	Pass
10.	Gadolinium (as Gd)	ND	ND	ND	0.01		Comply§	Pass
11.	Lanthanum (as La)	ND	ND	ND	0.01		Comply§	Pass
12.	Terbium (as Tb)	ND	ND	ND	0.01		Comply§	Pass
13.	Lead (as Pb)	ND	ND	ND	0.01	ND (DL:0.01)	Comply§	Pass
14.	Lithium (as Li)	ND	ND	ND	0.01	0.6	Comply§	Pass
15.	Manganese (as Mn)	ND	ND	ND	0.05	0.6	Comply§	Pass
16.	Mercury (as Hg)	ND	ND	ND	0.01	ND (DL:0.01)	Comply§	Pass
17.	Nickel (as Ni)	ND	ND	ND	0.01	0.02	Comply§	Pass
18.	Iron (as Fe)	ND	ND	ND	5	48	Comply§	Pass
19.	Zinc (as Zn)	ND	ND	ND	0.5	5	Comply§	Pass

Note:

- * The compliance with the specific migration limit shall be evaluated by applying the specific performance criterion stated in Annex V of Regulation (EU) No 10/2011 and its amendments. Please refer to Remark #2 in Appendix for further information.
- § The compliance of the stability of the tested material shall be evaluated by applying the stability rule stated in point 2.1.6 under Chapter 2 of Annex V of Regulation (EU) No 10/2011 and its amendments. Please refer to Remark #1 in Appendix for further information.

TEST REPORT



Test Report No. GGN/H(FCM)/26/002534

Dated 2026.08.17

Specific migration of heavy metals

Test Specification(s) / Regulation(s): Commission Regulation (EU) 2020/1245 amending and Correcting Regulation (EU) 10/2011 & amendment (EU) 2025/351 Framework regulation (EC) No 1935/2004.
Test method(s) adopted: EN 13130-1:2004 for exposure part followed by analysis using ICP – MS.
Simulant(s) used: 3% Acetic Acid
Test condition(s): 70°C for 2 hours ; (Repeated use /3 Migration).
Equipment(s) used: ICP – MS (Inductively Coupled Plasma – Mass Spectrometer).
Surface area to volume / Migration ratio: 0.98dm² : 200ml

S. No	Heavy metal	Result (mg/kg) (*) – Component No. A2			Limit of Quantification (mg/kg)	Compliance requirement Limit Max. (mg/kg)	Stability	Conclusion
		1 st Mig.	2 nd Mig.	3 rd Mig.				
1.	Aluminium (as Al)	ND	ND	ND	0.1	1	Comply§	Pass
2.	Antimony (as Sb)	ND	ND	ND	0.01	0.04	Comply§	Pass
3.	Arsenic (As)	ND	ND	ND	0.01	ND(DL:0.01)	Comply§	Pass
4.	Barium (as Ba)	ND	ND	ND	0.1	1	Comply§	Pass
5.	Cadmium (as Cd)	ND	ND	ND	0.002	ND (DL:0.002)	Comply§	Pass
6.	Chromium (as Cr)	ND	ND	ND	0.01	ND (DL:0.01)	Comply§	Pass
7.	Cobalt (as Co)	ND	ND	ND	0.01	0.05	Comply§	Pass
8.	Copper (as Cu)	ND	ND	ND	0.5	5	Comply§	Pass
9.	Europium (as Eu)	ND	ND	ND	0.01	Sum of (Eu+Gd+La+ Tb): < 0.05 mg/kg	Comply§	Pass
10.	Gadolinium (as Gd)	ND	ND	ND	0.01		Comply§	Pass
11.	Lanthanum (as La)	ND	ND	ND	0.01		Comply§	Pass
12.	Terbium (as Tb)	ND	ND	ND	0.01		Comply§	Pass
13.	Lead (as Pb)	ND	ND	ND	0.01	ND (DL:0.01)	Comply§	Pass
14.	Lithium (as Li)	ND	ND	ND	0.01	0.6	Comply§	Pass
15.	Manganese (as Mn)	ND	ND	ND	0.05	0.6	Comply§	Pass
16.	Mercury (as Hg)	ND	ND	ND	0.01	ND (DL:0.01)	Comply§	Pass
17.	Nickel (as Ni)	ND	ND	ND	0.01	0.02	Comply§	Pass
18.	Iron (as Fe)	ND	ND	ND	5	48	Comply§	Pass
19.	Zinc (as Zn)	ND	ND	ND	0.5	5	Comply§	Pass

Note:

- * The compliance with the specific migration limit shall be evaluated by applying the specific performance criterion stated in Annex V of Regulation (EU) No 10/2011 and its amendments. Please refer to Remark #2 in Appendix for further information.
- § The compliance of the stability of the tested material shall be evaluated by applying the stability rule stated in point 2.1.6 under Chapter 2 of Annex V of Regulation (EU) No 10/2011 and its amendments. Please refer to Remark #1 in Appendix for further information.

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Test Report No. GGN/H(FCM)/26/002534

Dated 2026.08.17

Determination of Volatile organic matter

Test Specification(s) / Regulation(s): As per applicant specification Arrêté du 5 août 2020

Test method adopted: GTP_Chem_CPS_25508A.

Test Condition: 105°C for 4 hours;

S. No.	Component No.	Test Result (%)	Maximum permissible limit (%)	Conclusion
1.	A1	0.39	≤ 0.5	Pass
2.	A2	0.01	≤ 0.5	Pass

Bisphenols and its derivatives (##)

Test Specification(s): Regulation(s) Commission Regulation (EU) 2026/250 correcting Regulation (EU) 2024/3190 on the use of bisphenol A (BPA) and other bisphenols and bisphenol derivatives with harmonized classification for specific hazardous properties in certain materials and articles intended to come into contact with food, amending Regulation (EU) No 10/2011 and repealing Regulation (EU) 2018/213

Test method(s) adopted: GTP_Chem_CPS_25120E.2023

Equipment(s) used: LC – MS-MS (Liquid Chromatograph – Mass Spectrometer- Mass Spectrometer).

S. No.	Analytes	CAS No.	Test Result – (µg/kg) Component No.		Conclusion
			A1	A2	
1.	Bisphenol A (BPA)	80-05-7	ND	ND	Pass
2.	Bisphenol S (BPS)	80-09-1	ND	ND	Pass
3.	Bisphenol AF (BPAF)	1478-61-1	ND	ND	Pass
4.	Bisphenol F (BPF)	620-92-8	ND	ND	Pass
5.	2,2-bis(4'-Hydroxyphenyl)-4-methylpentane (4,4'-Isobutylethylidenediphenol)	6807-17-6	ND	ND	Pass
6.	Tetrabromobisphenol A (TBBPA)	79-94-7	ND	ND	Pass
7.	Phenolphthalein	77-09-8	ND	ND	Pass

Limit of quantification: 0.001 mg/kg or 1µg/kg

Compliance Requirement/ Limit Max.: Absent (<0.001) mg/kg

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Dated 2026.08.17

Leakage Test (##)

Test Specification(s) / Requirement(s): As per Applicant's specified test conditions.

Test Duration: 4 hours (Hanged upside down)

Tested Sample	Test Result
Sample A - Pearl Jar (115 ml x 6) (690 ml) (Natural) (Lids in Blue)	No Leakage observed.

Freezer Safe Test (##)

Test Specification(s) / Requirement(s): As per Applicant's specified test conditions.

Temperature of freezer: -18°F

Exposure period: 24 Hours

Tested Sample	Test Requirement	Test Result	Conclusion
Sample A - Pearl Jar (115 ml x 6) (690 ml) (Natural) (Lids in Blue)	No discoloration, cracking, crazing, chipping, permanent deformation, No functionality loss.	No visual change has been observed.	Pass

Air Leakage Test (##)

Test Specification(s) / Requirement(s): As per Applicant's specified test conditions.

Tested Sample	Test Result(s) / Observation(s)
Sample A - Pearl Jar (115 ml x 6) (690 ml) (Natural) (Lids in Blue) (As received)	No visual change observed Overall weight change– 0.06% Rating –100% air-tight: x<0.10%
Sample A - Pearl Jar (115 ml x 6) (690 ml) (Natural) (Lids in Blue) (after dishwashing)	No visual change observed Overall weight change– 0.05% Rating –100% air-tight: x<0.10%

Abbreviations

“mg/kg” denotes milligram per kilogram & is equivalent to ppm (parts per million); “ND” denotes Not Detected or below limit of quantification; “°C” denotes degree Celsius; “%” denotes percent; “% (v/v)” denotes percent by volume.; “% (w/v)” denotes percent in terms of mass / weight per unit volume; “mg/dm²” denotes milligram per square decimetre; “mm” denotes millimetre; “g/m²” denotes Grams per Square Meter.

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Dated 2026.08.17

Appendix

1. According to Point 3.3.2 under Chapter 3 of Annex V of Regulation (EU) No 10/2011 and its amendments, the stability of repeated use material or article, the sample shall be considered non-compliant if:
 $m_{,3} > \text{OML}$, or,
 $m_{,1} < m_{,2}$, or,
 $m_{,2} < m_{,3}$, or,
 $m_{,1} < m_{,3}$
 The compliance with the OML and the stability rule shall be evaluated applying the following criteria:
 - If $(m_{,3} - \text{OML})/[(u(m_{,3}) + u(m_{,1}))] > 1.64$, then the third migration is higher than the OML,
 - If $(m_{,2} - m_{,1})/[(u(m_{,2}) + u(m_{,1}))] > 1.64$, then the first migration is smaller than the second migration,
 - If $(m_{,3} - m_{,2})/[(u(m_{,3}) + u(m_{,2}))] > 1.64$, then the second migration is smaller than the third migration,
 - If $(m_{,3} - m_{,1})/[(u(m_{,3}) + u(m_{,1}))] > 1.64$, the first migration is smaller than the third migration.

Where:
 - **OML** is the overall migration limit
 - **m** is the overall migration test result
 - **m_{,1}, m_{,2} and m_{,3}** are respectively the m during the first, the second and the third migration test
 - **u(m)** is the standard measurement uncertainty of m of the analytical method as determined by the laboratory.
2. According to Annex V of Regulation (EU) No 10/2011 and its amendments, the compliance with the SML shall be determined by evaluating m_c against the SML by applying the following specific performance criterion:

 If $(m_c - \text{SML})/[(u(m_c))] > 1.64$, then m_c exceeds the SML

Where:
 - **SML** is the specific migration limit
 - **m_c** is the specific migration test result of a substance
 - **u(m_c)** is the standard measurement uncertainty of m_c , which shall be determined by $u(m_c) = \text{CV}_R \times m_c$
 - **CV_R** is the reproducibility coefficient of variation
 - **CV_R = 0.22** for $m_c < 0.12 \times 10^{-6}$ kg/kg and
 - **CV_R = $2^{(1 - \frac{1}{2} \log(m_c))} / 100$** for 0.12×10^{-6} kg/kg $\leq m_c \leq 0.138$ kg/kg
3. According to Point 2.1.6 under Chapter 2 of Annex V of Regulation (EU) No 10/2011 and its amendments, the stability of repeated use material or article, the sample shall be considered non-compliant if:
 $m_{c,3} > \text{SML}$, or,
 $m_{c,1} < m_{c,2}$, or,
 $m_{c,2} < m_{c,3}$, or,
 $m_{c,1} < m_{c,3}$
 The compliance with the SML and the stability rule shall be evaluated applying the following criteria:
 - If $(m_{c,3} - \text{SML})/[(u(m_{c,3}) + u(m_{c,1}))] > 1.64$, then the third migration is higher than the SML,
 - If $(m_{c,2} - m_{c,1})/[(u(m_{c,2}) + u(m_{c,1}))] > 1.64$, then the first migration is smaller than the second migration,
 - If $(m_{c,3} - m_{c,2})/[(u(m_{c,3}) + u(m_{c,2}))] > 1.64$, then the second migration is smaller than the third migration,
 - If $(m_{c,3} - m_{c,1})/[(u(m_{c,3}) + u(m_{c,1}))] > 1.64$, the first migration is smaller than the third migration.

Where:
 - **SML** is the specific migration limit
 - **m_c** is the specific migration test result of a substance
 - **m_{c,1}, m_{c,2} and m_{c,3}** are respectively the m_c during the first, the second and the third migration test
 - **u(m_c)** is the standard measurement uncertainty of m_c , which shall be determined by $u(m_c) = \text{CV}_R \times m_c$
 - **CV_R** is the reproducibility coefficient of variation
 - **CV_R = 0.22** for $m_c < 0.12 \times 10^{-6}$ kg/kg and
 - **CV_R = $2^{(1 - \frac{1}{2} \log(m_c))} / 100$** for 0.12×10^{-6} kg/kg $\leq m_c \leq 0.138$ kg/kg

--- END OF THE TEST REPORT ---

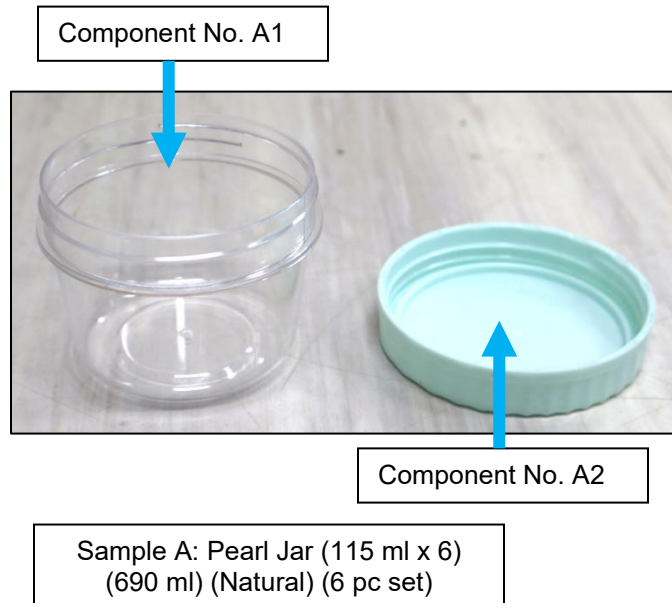
TEST REPORT



Test Report No. GGN/H(FCM)/26/002533

Dated 2026.08.17

Sample Image(s) (As Received)



TEST REPORT



TL-1082

Test Report No. GGN/H(FCM)/26/002533

Dated 2026.08.17

Applicant / Company Name : ALL TIME PLASTICS LIMITED
Address : Plot No. 377/1 (1&2) & 371/1(c), Kachigam Char Rasta, daman (U.T.) 396210
Attention / Contact Person : Zarir Patel
Date of Sample Receipt : Received on 2029.06.29 at 11:24 A.M.
Test Period : 2026.06.29 To 2026.08.17
Article / Sample Description : Pearl Jar (115 ml x 6) (690 ml) (Natural) (6 pc set)
Colour : Bottom - Natural, Lids in Mint
Product Type / End Use : Storage Container
Style No. : 8902084023567
Buyer : N.A.
Agent : N.A.
Supplier : N.A.
Season : N.A.
Country Of Origin : India
Country Of Destination : N.A.

Note:

1. The submitted sample(s) is / are Not Drawn by the Laboratory

2. Unless otherwise agreed upon, PASS or FAIL verdicts are given based on the measured values without any considerations of measurement uncertainties. Every test method has a measurement uncertainty which has been evaluated by the laboratory and are available on request. By taking measurement uncertainties into account, it might happen that measured values can neither be assessed as PASS nor as FAIL"

3. Disclaimer: The testing approach, the testing methods, and the reported results in this report demonstrate compliance or non-compliance to the client's requirements which were mutually agreed at the contract review and stipulated in the quotation.

The testing approach, the testing methods, and the reported results may not or only partially fulfil the associated requirements of the applicable regulations.

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TEST REPORT



Test Report No. GGN/H(FCM)/26/002533

Dated 2026.08.17

Remarks:

1. Test(s) performed as requested by applicant.
2. Conclusion(s) of the test(s) was drawn as per compliance requirement(s) specified by applicant.
3. Test "Bisphenols and its derivatives" was subcontracted to TÜV SÜD South Asia Pvt. Ltd., Ranipet, India.
4. (##) Marked Test is not under ISO/IEC 17025:2017 accreditation.

Authorized By

Verma, Parvesh Kumar
(Authorised Signatory)

Authorized By

Atal Anand
(Authorised Signatory)

Please Contact:

For any technical issues: Anuradha Dhamija at :Anuradha.Dhamija@tuvsud.com

For any complaint: Ashima Sapra at: Ashima.Sapra@tuvsud.com

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TEST REPORT



Test Report No. GGN/H(FCM)/26/002533

Dated 2026.08.17

Summary of Test Result(s)

S. No.	Test(s)	Conclusion (#)
1.	Overall Migration	Pass
2.	Total Lead Content	Pass
3.	Total Cadmium Content	Pass
4.	Specific migration of heavy metals	Pass
5.	Determination of Volatile organic matter	Pass
6.	Bisphenols and its derivatives	Pass
7.	Leakage Test	Observation / Refer Result
8.	Freezer Safe Test	Pass
9.	Air Leakage Test	Observation / Refer Result
(#) For details regarding specification(s) / regulation(s) based on which compliance is decided, refer test details.		

Material list / List of material(s) (As confirmed by applicant)

Component No.	Component description	Material	Color	Remarks
Sample A - Pearl Jar (115 ml x 6) (690 ml) (Natural) (6 pc set)				
A1	Container	Plastic	Transparent	Result Incorporated as Component is same as A1 of Report No. GGN/H(FCM)/26/002360
A2	Lid	Plastic	Lids in Mint	

Sampling plan (As requested by applicant)

S. No.	Test(s)	Component No.	
1.	Overall Migration	A1	A2
2.	Total Lead Content	A1	A2
3.	Total Cadmium Content	A1	A2
4.	Specific migration of heavy metals	A1	A2
5.	Determination of Volatile organic matter	A1	A2
6.	Bisphenols and its derivatives	A1	A2

TEST REPORT



Test Report No. GGN/H(FCM)/26/002533

Dated 2026.08.17

Test Result(s):

Overall Migration

Test Specification(s) / Regulation(s): Commission Regulation (EU) No. 10/2011 & its amendment (EU) 2025/351 and Framework regulation (EC) No 1935/2004.

Test method(s) adopted: EN 1186: 2022.

Simulant(s) used: Refer below.

Test condition(s): Refer below; (Repeated use /3 Migration).

Surface area to volume / Migration ratio: 1.23 dm² :100 ml

S. No.	Simulant	Test condition	Result (mg/dm ²) – Component No. A1			Stability	Conclusion
			1 st Mig.	2 nd Mig.	3 rd Mig.		
1.	3 % Acetic acid	70°C for 2 Hours	ND	ND	ND	Comply§	Pass
2.	10% Ethanol	70°C for 2 Hours	ND	ND	ND	Comply§	Pass
3.	95% Ethanol	60°C for 2 Hours	ND	ND	ND	Comply§	Pass
4.	Iso Octane	40°C for 30 minutes	ND	ND	ND	Comply§	Pass

Limit of quantification: 3.0 mg/dm²

Maximum Permissible Limit (mg/dm²): 10.0

Note:

1. The standard measurement uncertainty, u(m), of the analytical method is 20%.
2. § The compliance of the stability of the tested material shall be evaluated by applying the stability rule stated in point 3.3.2 under Chapter 3 of Annex V of Regulation (EU) No 10/2011 and its amendments. Please refer to Remark #1 in Appendix for further information.

Overall Migration

Test Specification(s) / Regulation(s): Commission Regulation (EU) No. 10/2011 & its amendment (EU) 2025/351 and Framework regulation (EC) No 1935/2004.

Test method(s) adopted: EN 1186: 2022.

Simulant(s) used: Refer below.

Test condition(s): Refer below; (Repeated use /3 Migration).

Surface area to volume / Migration ratio: 0.98dm² : 200ml

S. No.	Simulant	Test condition	Result (mg/dm ²) – Component No. A2			Stability	Conclusion
			1 st Mig.	2 nd Mig.	3 rd Mig.		
1.	3 % Acetic acid	70°C for 2 Hours	ND	ND	ND	Comply§	Pass
2.	10% Ethanol	70°C for 2 Hours	ND	ND	ND	Comply§	Pass
3.	95% Ethanol	60°C for 2 Hours	ND	ND	ND	Comply§	Pass
4.	Iso Octane	40°C for 30 minutes	ND	ND	ND	Comply§	Pass

Limit of quantification: 3.0 mg/dm²

Maximum Permissible Limit (mg/dm²): 10.0

Note:

1. The standard measurement uncertainty, u(m), of the analytical method is 20%.
2. § The compliance of the stability of the tested material shall be evaluated by applying the stability rule stated in point 3.3.2 under Chapter 3 of Annex V of Regulation (EU) No 10/2011 and its amendments. Please refer to Remark #1 in Appendix for further information.

TEST REPORT



Test Report No. GGN/H(FCM)/26/002533

Dated 2026.08.17

Total Lead Content

Test Specification(s) / Regulation(s): REACH Regulation (EC) No 1907/2006 (Annex XVII) & its amendments (Entry level / No.: 63)

Test method(s) adopted: GTP_Chem_CPS_25134C For Non - Metal Component / (Acid digestion followed by analysis using ICP-MS)

Equipment(s) used: Inductively Coupled Plasma – Mass Spectrometer (ICP – MS).

S. No.	Component No.	Test Result (mg/kg)	Limit of quantification (mg/kg)	Compliance Requirement(s) / Limit Max (mg/kg)	Conclusion
1.	A1	33.8	10.0	Less than 500	Pass
2.	A2	ND	10.0	Less than 500	Pass

Total Cadmium Content

Test Specification(s) / Regulation(s): REACH Regulation (EC) No 1907/2006 (Annex XVII) & its amendments (Entry level / No.: 23).

Test method(s) adopted: EN 16711-1:2016

Equipment(s) used: Inductively Coupled Plasma – Mass Spectrometer (ICP – MS).

S. No.	Component No.	Test Result (mg/kg)	Limit of Quantification (mg/kg)	Compliance Requirement(s) / Limit Max (mg/kg)	Conclusion
1.	A1	ND	10.0	Less than 100	Pass
2.	A2	ND	10.0	Less than 100	Pass

TEST REPORT



Test Report No. GGN/H(FCM)/26/002533

Dated 2026.08.17

Specific migration of heavy metals

Test Specification(s) / Regulation(s): Commission Regulation (EU) 2020/1245 amending and Correcting Regulation (EU) 10/2011 & amendment (EU) 2025/351 Framework regulation (EC) No 1935/2004.

Test method(s) adopted: EN 13130-1:2004 for exposure part followed by analysis using ICP – MS.

Simulant(s) used: 3% Acetic Acid

Test condition(s): 70°C for 2 hours ; (Repeated use /3 Migration).

Equipment(s) used: ICP – MS (Inductively Coupled Plasma – Mass Spectrometer).

Surface area to volume / Migration ratio: 1.23 dm²:100 ml

S. No	Heavy metal	Result (mg/kg) (*) – Component No. A1			Limit of Quantification (mg/kg)	Compliance requirement Limit Max. (mg/kg)	Stability	Conclusion
		1 st Mig.	2 nd Mig.	3 rd Mig.				
1.	Aluminium (as Al)	ND	ND	ND	0.1	1	Comply§	Pass
2.	Antimony (as Sb)	ND	ND	ND	0.01	0.04	Comply§	Pass
3.	Arsenic (As)	ND	ND	ND	0.01	ND(DL0.01)	Comply§	Pass
4.	Barium (as Ba)	ND	ND	ND	0.1	1	Comply§	Pass
5.	Cadmium (as Cd)	ND	ND	ND	0.002	ND (DL:0.002)	Comply§	Pass
6.	Chromium (as Cr)	ND	ND	ND	0.01	ND (DL:0.01)	Comply§	Pass
7.	Cobalt (as Co)	ND	ND	ND	0.01	0.05	Comply§	Pass
8.	Copper (as Cu)	ND	ND	ND	0.5	5	Comply§	Pass
9.	Europium (as Eu)	ND	ND	ND	0.01	Sum of (Eu+Gd+La+ Tb): < 0.05 mg/kg	Comply§	Pass
10.	Gadolinium (as Gd)	ND	ND	ND	0.01		Comply§	Pass
11.	Lanthanum (as La)	ND	ND	ND	0.01		Comply§	Pass
12.	Terbium (as Tb)	ND	ND	ND	0.01		Comply§	Pass
13.	Lead (as Pb)	ND	ND	ND	0.01	ND (DL:0.01)	Comply§	Pass
14.	Lithium (as Li)	ND	ND	ND	0.01	0.6	Comply§	Pass
15.	Manganese (as Mn)	ND	ND	ND	0.05	0.6	Comply§	Pass
16.	Mercury (as Hg)	ND	ND	ND	0.01	ND (DL:0.01)	Comply§	Pass
17.	Nickel (as Ni)	ND	ND	ND	0.01	0.02	Comply§	Pass
18.	Iron (as Fe)	ND	ND	ND	5	48	Comply§	Pass
19.	Zinc (as Zn)	ND	ND	ND	0.5	5	Comply§	Pass

Note:

1. * The compliance with the specific migration limit shall be evaluated by applying the specific performance criterion stated in Annex V of Regulation (EU) No 10/2011 and its amendments. Please refer to Remark #2 in Appendix for further information.

2. § The compliance of the stability of the tested material shall be evaluated by applying the stability rule stated in point 2.1.6 under Chapter 2 of Annex V of Regulation (EU) No 10/2011 and its amendments. Please refer to Remark #1 in Appendix for further information.

TEST REPORT



Test Report No. GGN/H(FCM)/26/002533

Dated 2026.08.17

Specific migration of heavy metals

Test Specification(s) / Regulation(s): Commission Regulation (EU) 2020/1245 amending and Correcting Regulation (EU) 10/2011 & amendment (EU) 2025/351 Framework regulation (EC) No 1935/2004.

Test method(s) adopted: EN 13130-1:2004 for exposure part followed by analysis using ICP – MS.

Simulant(s) used: 3% Acetic Acid

Test condition(s): 70°C for 2 hours ; (Repeated use /3 Migration).

Equipment(s) used: ICP – MS (Inductively Coupled Plasma – Mass Spectrometer).

Surface area to volume / Migration ratio: 0.98dm² : 200ml

S. No	Heavy metal	Result (mg/kg) (*) – Component No. A2			Limit of Quantification (mg/kg)	Compliance requirement Limit Max. (mg/kg)	Stability	Conclusion
		1 st Mig.	2 nd Mig.	3 rd Mig.				
1.	Aluminium (as Al)	ND	ND	ND	0.1	1	Comply§	Pass
2.	Antimony (as Sb)	ND	ND	ND	0.01	0.04	Comply§	Pass
3.	Arsenic (As)	ND	ND	ND	0.01	ND(DL:0.01)	Comply§	Pass
4.	Barium (as Ba)	ND	ND	ND	0.1	1	Comply§	Pass
5.	Cadmium (as Cd)	ND	ND	ND	0.002	ND (DL:0.002)	Comply§	Pass
6.	Chromium (as Cr)	ND	ND	ND	0.01	ND (DL:0.01)	Comply§	Pass
7.	Cobalt (as Co)	ND	ND	ND	0.01	0.05	Comply§	Pass
8.	Copper (as Cu)	ND	ND	ND	0.5	5	Comply§	Pass
9.	Europium (as Eu)	ND	ND	ND	0.01	Sum of (Eu+Gd+La+ Tb): < 0.05 mg/kg	Comply§	Pass
10.	Gadolinium (as Gd)	ND	ND	ND	0.01		Comply§	Pass
11.	Lanthanum (as La)	ND	ND	ND	0.01		Comply§	Pass
12.	Terbium (as Tb)	ND	ND	ND	0.01		Comply§	Pass
13.	Lead (as Pb)	ND	ND	ND	0.01	ND (DL:0.01)	Comply§	Pass
14.	Lithium (as Li)	ND	ND	ND	0.01	0.6	Comply§	Pass
15.	Manganese (as Mn)	ND	ND	ND	0.05	0.6	Comply§	Pass
16.	Mercury (as Hg)	ND	ND	ND	0.01	ND (DL:0.01)	Comply§	Pass
17.	Nickel (as Ni)	ND	ND	ND	0.01	0.02	Comply§	Pass
18.	Iron (as Fe)	ND	ND	ND	5	48	Comply§	Pass
19.	Zinc (as Zn)	ND	ND	ND	0.5	5	Comply§	Pass

Note:

- * The compliance with the specific migration limit shall be evaluated by applying the specific performance criterion stated in Annex V of Regulation (EU) No 10/2011 and its amendments. Please refer to Remark #2 in Appendix for further information.
- § The compliance of the stability of the tested material shall be evaluated by applying the stability rule stated in point 2.1.6 under Chapter 2 of Annex V of Regulation (EU) No 10/2011 and its amendments. Please refer to Remark #1 in Appendix for further information.

TEST REPORT



Test Report No. GGN/H(FCM)/26/002533

Dated 2026.08.17

Determination of Volatile organic matter

Test Specification(s) / Regulation(s): As per applicant specification Arrêté du 5 août 2020

Test method adopted: GTP_Chem_CPS_25508A.

Test Condition: 105°C for 4 hours;

S. No.	Component No.	Test Result (%)	Maximum permissible limit (%)	Conclusion
1.	A1	0.39	≤ 0.5	Pass
2.	A2	0.02	≤ 0.5	Pass

Bisphenols and its derivatives (##)

Test Specification(s): Regulation(s) Commission Regulation (EU) 2026/250 correcting Regulation (EU) 2024/3190 on the use of bisphenol A (BPA) and other bisphenols and bisphenol derivatives with harmonized classification for specific hazardous properties in certain materials and articles intended to come into contact with food, amending Regulation (EU) No 10/2011 and repealing Regulation (EU) 2018/213

Test method(s) adopted: GTP_Chem_CPS_25120E.2023

Equipment(s) used: LC – MS-MS (Liquid Chromatograph – Mass Spectrometer- Mass Spectrometer).

S. No.	Analytes	CAS No.	Test Result – (µg/kg)		Conclusion
			A1	A2	
1.	Bisphenol A (BPA)	80-05-7	ND	ND	Pass
2.	Bisphenol S (BPS)	80-09-1	ND	ND	Pass
3.	Bisphenol AF (BPAF)	1478-61-1	ND	ND	Pass
4.	Bisphenol F (BPF)	620-92-8	ND	ND	Pass
5.	2,2-bis(4'-Hydroxyphenyl)-4-methylpentane (4,4'-Isobutylethylidenediphenol)	6807-17-6	ND	ND	Pass
6.	Tetrabromobisphenol A (TBBPA)	79-94-7	ND	ND	Pass
7.	Phenolphthalein	77-09-8	ND	ND	Pass

Limit of quantification: 0.001 mg/kg or 1µg/kg

Compliance Requirement/ Limit Max.: Absent (<0.001) mg/kg

TEST REPORT



Test Report No. GGN/H(FCM)/26/002533

Dated 2026.08.17

Leakage Test (##)

Test Specification(s) / Requirement(s): As per Applicant's specified test conditions.

Test Duration: 4 hours (Hanged upside down)

Tested Sample	Test Result
Sample A - Pearl Jar (115 ml x 6) (690 ml) (Natural) (Lids in Mint)	No Leakage observed.

Freezer Safe Test (##)

Test Specification(s) / Requirement(s): As per Applicant's specified test conditions.

Temperature of freezer: -18°F

Exposure period: 24 Hours

Tested Sample	Test Requirement	Test Result	Conclusion
Sample A - Pearl Jar (115 ml x 6) (690 ml) (Natural) (Lids in Mint)	No discoloration, cracking, crazing, chipping, permanent deformation, No functionality loss.	No visual change has been observed.	Pass

Air Leakage Test (##)

Test Specification(s) / Requirement(s): As per Applicant's specified test conditions.

Test method(s) adopted: IHTM – A062

Tested Sample	Test Result(s) / Observation(s)
Sample A - Pearl Jar (115 ml x 6) (690 ml) (Natural) (Lids in Mint) (As received)	No visual change observed Overall weight change– 0.04% Rating –100% air-tight: $x < 0.10\%$
Sample A - Pearl Jar (115 ml x 6) (690 ml) (Natural) (Lids in Mint) (after dishwashing)	No visual change observed Overall weight change– 0.07% Rating –100% air-tight: $x < 0.10\%$

Abbreviations

“mg/kg” denotes milligram per kilogram & is equivalent to ppm (parts per million); “ND” denotes Not Detected or below limit of quantification; “°C” denotes degree Celsius; “%” denotes percent; “% (v/v)” denotes percent by volume.; “% (w/v)” denotes percent in terms of mass / weight per unit volume; “mg/dm²” denotes milligram per square decimetre; “mm” denotes millimetre; “g/m²” denotes Grams per Square Meter.

TEST REPORT



Test Report No. GGN/H(FCM)/26/002533

Dated 2026.08.17

Appendix

1. According to Point 3.3.2 under Chapter 3 of Annex V of Regulation (EU) No 10/2011 and its amendments, the stability of repeated use material or article, the sample shall be considered non-compliant if:
 $m_{,3} > \text{OML}$, or,
 $m_{,1} < m_{,2}$, or,
 $m_{,2} < m_{,3}$, or,
 $m_{,1} < m_{,3}$
 The compliance with the OML and the stability rule shall be evaluated applying the following criteria:
 - If $(m_{,3} - \text{OML})/[(u(m_{,3}) + u(m_{,1}))] > 1.64$, then the third migration is higher than the OML,
 - If $(m_{,2} - m_{,1})/[(u(m_{,2}) + u(m_{,1}))] > 1.64$, then the first migration is smaller than the second migration,
 - If $(m_{,3} - m_{,2})/[(u(m_{,3}) + u(m_{,2}))] > 1.64$, then the second migration is smaller than the third migration,
 - If $(m_{,3} - m_{,1})/[(u(m_{,3}) + u(m_{,1}))] > 1.64$, the first migration is smaller than the third migration.

Where:
 - **OML** is the overall migration limit
 - **m** is the overall migration test result
 - **m_{,1}, m_{,2} and m_{,3}** are respectively the m during the first, the second and the third migration test
 - **u(m)** is the standard measurement uncertainty of m of the analytical method as determined by the laboratory.
2. According to Annex V of Regulation (EU) No 10/2011 and its amendments, the compliance with the SML shall be determined by evaluating m_c against the SML by applying the following specific performance criterion:

 If $(m_c - \text{SML})/[(u(m_c))] > 1.64$, then m_c exceeds the SML

Where:
 - **SML** is the specific migration limit
 - **m_c** is the specific migration test result of a substance
 - **u(m_c)** is the standard measurement uncertainty of m_c, which shall be determined by $u(m_c) = \text{CV}_R \times m_c$
 - **CV_R** is the reproducibility coefficient of variation
 - **CV_R = 0.22** for $m_c < 0.12 \times 10^{-6}$ kg/kg and
 - **CV_R = $2^{(1-\frac{1}{2}\log(m_c))}/100$** for 0.12×10^{-6} kg/kg $\leq m_c \leq 0.138$ kg/kg
3. According to Point 2.1.6 under Chapter 2 of Annex V of Regulation (EU) No 10/2011 and its amendments, the stability of repeated use material or article, the sample shall be considered non-compliant if:
 $m_{c,3} > \text{SML}$, or,
 $m_{c,1} < m_{c,2}$, or,
 $m_{c,2} < m_{c,3}$, or,
 $m_{c,1} < m_{c,3}$
 The compliance with the SML and the stability rule shall be evaluated applying the following criteria:
 - If $(m_{c,3} - \text{SML})/[(u(m_{c,3}) + u(m_{c,1}))] > 1.64$, then the third migration is higher than the SML,
 - If $(m_{c,2} - m_{c,1})/[(u(m_{c,2}) + u(m_{c,1}))] > 1.64$, then the first migration is smaller than the second migration,
 - If $(m_{c,3} - m_{c,2})/[(u(m_{c,3}) + u(m_{c,2}))] > 1.64$, then the second migration is smaller than the third migration,
 - If $(m_{c,3} - m_{c,1})/[(u(m_{c,3}) + u(m_{c,1}))] > 1.64$, the first migration is smaller than the third migration.

Where:
 - **SML** is the specific migration limit
 - **m_c** is the specific migration test result of a substance
 - **m_{c,1}, m_{c,2} and m_{c,3}** are respectively the m_c during the first, the second and the third migration test
 - **u(m_c)** is the standard measurement uncertainty of m_c, which shall be determined by $u(m_c) = \text{CV}_R \times m_c$
 - **CV_R** is the reproducibility coefficient of variation
 - **CV_R = 0.22** for $m_c < 0.12 \times 10^{-6}$ kg/kg and
 - **CV_R = $2^{(1-\frac{1}{2}\log(m_c))}/100$** for 0.12×10^{-6} kg/kg $\leq m_c \leq 0.138$ kg/kg

--- END OF THE TEST REPORT ---

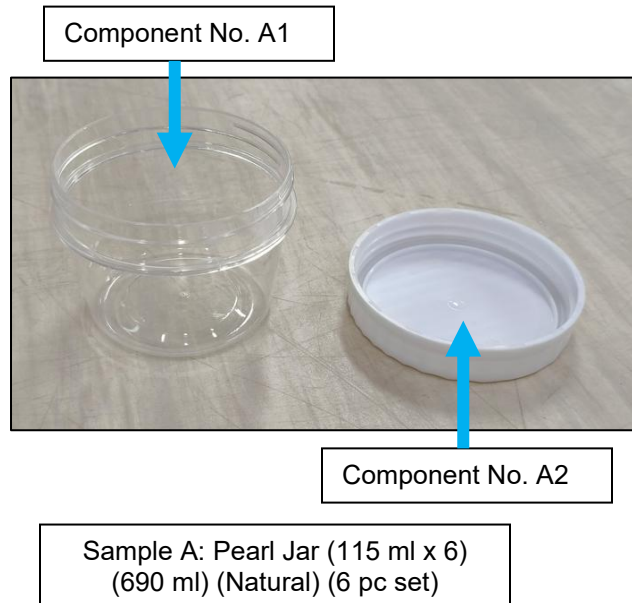
TEST REPORT



Test Report No. GGN/H(FCM)/26/002360

Dated. 2026.08.17

Sample Image(s) (As Received)



TEST REPORT



TL-1082

Test Report No. GGN/H(FCM)/26/002360

Dated. 2026.08.17

Applicant / Company Name : ALL TIME PLASTICS LIMITED
Address : Plot No. 377/1 (1&2) & 371/1(c), Kachigam Char Rasta, daman (U.T.) 396210
Attention / Contact Person : Zarir Patel
Date of Sample Receipt : Received on 2029.06.29 at 11:24 A.M.
Test Period : 2026.06.29 To 2026.08.17
Article / Sample Description : Pearl Jar (115 ml x 6) (690 ml) (Natural) (6 pc set)
Colour : Bottom - Natural, Lids in White
Product Type / End Use : Storage Container
Style No. : 8902084023567
Buyer : N.A.
Agent : N.A.
Supplier : N.A.
Season : N.A.
Country Of Origin : India
Country Of Destination : N.A.

Note:

1. The submitted sample(s) is / are Not Drawn by the Laboratory

2. Unless otherwise agreed upon, PASS or FAIL verdicts are given based on the measured values without any considerations of measurement uncertainties. Every test method has a measurement uncertainty which has been evaluated by the laboratory and are available on request. By taking measurement uncertainties into account, it might happen that measured values can neither be assessed as PASS nor as FAIL"

3. Disclaimer: The testing approach, the testing methods, and the reported results in this report demonstrate compliance or non-compliance to the client's requirements which were mutually agreed at the contract review and stipulated in the quotation.

The testing approach, the testing methods, and the reported results may not or only partially fulfil the associated requirements of the applicable regulations.

4. The laboratory will retain the sample(s) for 45 days except for the mandatory retention period specified by the Regulatory Bodies and unless otherwise specified by the client.

TEST REPORT



Test Report No. GGN/H(FCM)/26/002360

Dated. 2026.08.17

Remarks:

1. Test(s) performed as requested by applicant.
2. Conclusion(s) of the test(s) was drawn as per compliance requirement(s) specified by applicant.
3. Test "Bisphenols and its derivatives" was subcontracted to TÜV SÜD South Asia Pvt. Ltd., Ranipet, India.
4. (##) Marked Test is not under ISO/IEC 17025:2017 accreditation.

Authorized By

Verma, Parvesh Kumar
(Authorised Signatory)

Authorized By

Atal Anand
(Authorised Signatory)

Please Contact:

For any technical issues: Anuradha Dhamija at :Anuradha.Dhamija@tuvsud.com

For any complaint: Ashima Sapra at: Ashima.Sapra@tuvsud.com

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Mumbai – 400072. India

TEST REPORT



Test Report No. GGN/H(FCM)/26/002360

Dated. 2026.08.17

Summary of Test Result(s)

S. No.	Test(s)	Conclusion (#)
1.	Overall Migration	Pass
2.	Total Lead Content	Pass
3.	Total Cadmium Content	Pass
4.	Specific migration of heavy metals	Pass
5.	Determination of Volatile organic matter	Pass
6.	Bisphenols and its derivatives	Pass
7.	Leakage Test	Observation / Refer Result
8.	Freezer Safe Test	Pass
9.	Air Leakage Test	Observation / Refer Result
(#) For details regarding specification(s) / regulation(s) based on which compliance is decided, refer test details.		

Material list / List of material(s) (As confirmed by applicant)

Component No.	Component description	Material	Color
Sample A - Pearl Jar (115 ml x 6) (690 ml) (Natural) (6 pc set)			
A1	Container	Plastic	Transparent
A2	White Lid	Plastic	White

Sampling plan (As requested by applicant)

S. No.	Test(s)	Component No.	
1.	Overall Migration	A1	A2
2.	Total Lead Content	A1	A2
3.	Total Cadmium Content	A1	A2
4.	Specific migration of heavy metals	A1	A2
5.	Determination of Volatile organic matter	A1	A2
6.	Bisphenols and its derivatives	A1	A2

TEST REPORT



Test Report No. GGN/H(FCM)/26/002360

Dated. 2026.08.17

Test Result(s):

Overall Migration

Test Specification(s) / Regulation(s): Commission Regulation (EU) No. 10/2011 & its amendment (EU) 2025/351 and Framework regulation (EC) No 1935/2004.

Test method(s) adopted: EN 1186: 2022.

Simulant(s) used: Refer below.

Test condition(s): Refer below; (Repeated use /3 Migration).

Surface area to volume / Migration ratio: 1.23 dm²:100 ml

S. No.	Simulant	Test condition	Result (mg/dm ²) – Component No. A1			Stability	Conclusion
			1 st Mig.	2 nd Mig.	3 rd Mig.		
1.	3 % Acetic acid	70°C for 2 Hours	ND	ND	ND	Comply§	Pass
2.	10% Ethanol	70°C for 2 Hours	ND	ND	ND	Comply§	Pass
3.	95% Ethanol	60°C for 2 Hours	ND	ND	ND	Comply§	Pass
4.	Iso Octane	40°C for 30 minutes	ND	ND	ND	Comply§	Pass

Limit of quantification: 3.0 mg/dm²

Maximum Permissible Limit (mg/dm²): 10.0

Note:

1. The standard measurement uncertainty, u(m), of the analytical method is 20%.
2. § The compliance of the stability of the tested material shall be evaluated by applying the stability rule stated in point 3.3.2 under Chapter 3 of Annex V of Regulation (EU) No 10/2011 and its amendments. Please refer to Remark #1 in Appendix for further information.

Overall Migration

Test Specification(s) / Regulation(s): Commission Regulation (EU) No. 10/2011 & its amendment (EU) 2025/351 and Framework regulation (EC) No 1935/2004.

Test method(s) adopted: EN 1186: 2022.

Simulant(s) used: Refer below.

Test condition(s): Refer below; (Repeated use /3 Migration).

Surface area to volume / Migration ratio: 0.48 dm²:80 ml

S. No.	Simulant	Test condition	Result (mg/dm ²) – Component No. A2			Stability	Conclusion
			1 st Mig.	2 nd Mig.	3 rd Mig.		
1.	3 % Acetic acid	70°C for 2 Hours	ND	ND	ND	Comply§	Pass
2.	10% Ethanol	70°C for 2 Hours	ND	ND	ND	Comply§	Pass
3.	95% Ethanol	60°C for 2 Hours	ND	ND	ND	Comply§	Pass
4.	Iso Octane	40°C for 30 minutes	ND	ND	ND	Comply§	Pass

Limit of quantification: 3.0 mg/dm²

Maximum Permissible Limit (mg/dm²): 10.0

Note:

1. The standard measurement uncertainty, u(m), of the analytical method is 20%.
2. § The compliance of the stability of the tested material shall be evaluated by applying the stability rule stated in point 3.3.2 under Chapter 3 of Annex V of Regulation (EU) No 10/2011 and its amendments. Please refer to Remark #1 in Appendix for further information.

TEST REPORT



Test Report No. GGN/H(FCM)/26/002360

Dated. 2026.08.17

Total Lead Content

Test Specification(s) / Regulation(s): REACH Regulation (EC) No 1907/2006 (Annex XVII) & its amendments (Entry level / No.: 63)

Test method(s) adopted: GTP_Chem_CPS_25134C For Non - Metal Component / (Acid digestion followed by analysis using ICP-MS)

Equipment(s) used: Inductively Coupled Plasma – Mass Spectrometer (ICP – MS).

S. No.	Component No.	Test Result (mg/kg)	Limit of quantification (mg/kg)	Compliance Requirement(s) / Limit Max (mg/kg)	Conclusion
1.	A1	33.8	10.0	Less than 500	Pass
2.	A2	ND	10.0	Less than 500	Pass

Total Cadmium Content

Test Specification(s) / Regulation(s): REACH Regulation (EC) No 1907/2006 (Annex XVII) & its amendments (Entry level / No.: 23).

Test method(s) adopted: EN 16711-1:2016

Equipment(s) used: Inductively Coupled Plasma – Mass Spectrometer (ICP – MS).

S. No.	Component No.	Test Result (mg/kg)	Limit of Quantification (mg/kg)	Compliance Requirement(s) / Limit Max (mg/kg)	Conclusion
1.	A1	ND	10.0	Less than 100	Pass
2.	A2	ND	10.0	Less than 100	Pass

TEST REPORT



Test Report No. GGN/H(FCM)/26/002360

Dated. 2026.08.17

Specific migration of heavy metals

Test Specification(s) / Regulation(s): Commission Regulation (EU) 2020/1245 amending and Correcting Regulation (EU) 10/2011 & amendment (EU) 2025/351 Framework regulation (EC) No 1935/2004.

Test method(s) adopted: EN 13130-1:2004 for exposure part followed by analysis using ICP – MS.

Simulant(s) used: 3% Acetic Acid

Test condition(s): 70°C for 2 hours ; (Repeated use /3 Migration).

Equipment(s) used: ICP – MS (Inductively Coupled Plasma – Mass Spectrometer).

Surface area to volume / Migration ratio: 1.23 dm²:100 ml

S. No	Heavy metal	Result (mg/kg) (*) – Component No. A1			Limit of Quantification (mg/kg)	Compliance requirement Limit Max. (mg/kg)	Stability	Conclusion
		1 st Mig.	2 nd Mig.	3 rd Mig.				
1.	Aluminium (as Al)	ND	ND	ND	0.1	1	Comply§	Pass
2.	Antimony (as Sb)	ND	ND	ND	0.01	0.04	Comply§	Pass
3.	Arsenic (As)	ND	ND	ND	0.01	ND(DL0.01)	Comply§	Pass
4.	Barium (as Ba)	ND	ND	ND	0.1	1	Comply§	Pass
5.	Cadmium (as Cd)	ND	ND	ND	0.002	ND (DL:0.002)	Comply§	Pass
6.	Chromium (as Cr)	ND	ND	ND	0.01	ND (DL:0.01)	Comply§	Pass
7.	Cobalt (as Co)	ND	ND	ND	0.01	0.05	Comply§	Pass
8.	Copper (as Cu)	ND	ND	ND	0.5	5	Comply§	Pass
9.	Europium (as Eu)	ND	ND	ND	0.01	Sum of (Eu+Gd+La+ Tb): < 0.05 mg/kg	Comply§	Pass
10.	Gadolinium (as Gd)	ND	ND	ND	0.01		Comply§	Pass
11.	Lanthanum (as La)	ND	ND	ND	0.01		Comply§	Pass
12.	Terbium (as Tb)	ND	ND	ND	0.01		Comply§	Pass
13.	Lead (as Pb)	ND	ND	ND	0.01	ND (DL:0.01)	Comply§	Pass
14.	Lithium (as Li)	ND	ND	ND	0.01	0.6	Comply§	Pass
15.	Manganese (as Mn)	ND	ND	ND	0.05	0.6	Comply§	Pass
16.	Mercury (as Hg)	ND	ND	ND	0.01	ND (DL:0.01)	Comply§	Pass
17.	Nickel (as Ni)	ND	ND	ND	0.01	0.02	Comply§	Pass
18.	Iron (as Fe)	ND	ND	ND	5	48	Comply§	Pass
19.	Zinc (as Zn)	ND	ND	ND	0.5	5	Comply§	Pass

Note:

1. * The compliance with the specific migration limit shall be evaluated by applying the specific performance criterion stated in Annex V of Regulation (EU) No 10/2011 and its amendments. Please refer to Remark #2 in Appendix for further information.

2. § The compliance of the stability of the tested material shall be evaluated by applying the stability rule stated in point 2.1.6 under Chapter 2 of Annex V of Regulation (EU) No 10/2011 and its amendments. Please refer to Remark #1 in Appendix for further information.

TEST REPORT



Test Report No. GGN/H(FCM)/26/002360

Dated. 2026.08.17

Specific migration of heavy metals

Test Specification(s) / Regulation(s): Commission Regulation (EU) 2020/1245 amending and Correcting Regulation (EU) 10/2011 & amendment (EU) 2025/351 Framework regulation (EC) No 1935/2004.
Test method(s) adopted: EN 13130-1:2004 for exposure part followed by analysis using ICP – MS.
Simulant(s) used: 3% Acetic Acid
Test condition(s): 70°C for 2 hours ; (Repeated use /3 Migration).
Equipment(s) used: ICP – MS (Inductively Coupled Plasma – Mass Spectrometer).
Surface area to volume / Migration ratio: 0.48 dm²:80 ml

S. No	Heavy metal	Result (mg/kg) (*) – Component No. A2			Limit of Quantification (mg/kg)	Compliance requirement Limit Max. (mg/kg)	Stability	Conclusion
		1 st Mig.	2 nd Mig.	3 rd Mig.				
1.	Aluminium (as Al)	ND	ND	ND	0.1	1	Comply§	Pass
2.	Antimony (as Sb)	ND	ND	ND	0.01	0.04	Comply§	Pass
3.	Arsenic (As)	ND	ND	ND	0.01	ND(DL0.01)	Comply§	Pass
4.	Barium (as Ba)	ND	ND	ND	0.1	1	Comply§	Pass
5.	Cadmium (as Cd)	ND	ND	ND	0.002	ND (DL:0.002)	Comply§	Pass
6.	Chromium (as Cr)	ND	ND	ND	0.01	ND (DL:0.01)	Comply§	Pass
7.	Cobalt (as Co)	ND	ND	ND	0.01	0.05	Comply§	Pass
8.	Copper (as Cu)	ND	ND	ND	0.5	5	Comply§	Pass
9.	Europium (as Eu)	ND	ND	ND	0.01	Sum of (Eu+Gd+La+ Tb): < 0.05 mg/kg	Comply§	Pass
10.	Gadolinium (as Gd)	ND	ND	ND	0.01		Comply§	Pass
11.	Lanthanum (as La)	ND	ND	ND	0.01		Comply§	Pass
12.	Terbium (as Tb)	ND	ND	ND	0.01		Comply§	Pass
13.	Lead (as Pb)	ND	ND	ND	0.01	ND (DL:0.01)	Comply§	Pass
14.	Lithium (as Li)	ND	ND	ND	0.01	0.6	Comply§	Pass
15.	Manganese (as Mn)	ND	ND	ND	0.05	0.6	Comply§	Pass
16.	Mercury (as Hg)	ND	ND	ND	0.01	ND (DL:0.01)	Comply§	Pass
17.	Nickel (as Ni)	ND	ND	ND	0.01	0.02	Comply§	Pass
18.	Iron (as Fe)	ND	ND	ND	5	48	Comply§	Pass
19.	Zinc (as Zn)	ND	ND	ND	0.5	5	Comply§	Pass

Note:

- * The compliance with the specific migration limit shall be evaluated by applying the specific performance criterion stated in Annex V of Regulation (EU) No 10/2011 and its amendments. Please refer to Remark #2 in Appendix for further information.
- § The compliance of the stability of the tested material shall be evaluated by applying the stability rule stated in point 2.1.6 under Chapter 2 of Annex V of Regulation (EU) No 10/2011 and its amendments. Please refer to Remark #1 in Appendix for further information.

TEST REPORT



Test Report No. GGN/H(FCM)/26/002360

Dated. 2026.08.17

Determination of Volatile organic matter

Test Specification(s) / Regulation(s): As per applicant specification Arrêté du 5 août 2020

Test method adopted: GTP_Chem_CPS_25508A.

Test Condition: 105°C for 4 hours;

S. No.	Component No.	Test Result (%)	Maximum permissible limit (%)	Conclusion
1.	A1	0.39	≤ 0.5	Pass
2.	A2	0.07	≤ 0.5	Pass

Bisphenols and its derivatives (##)

Test Specification(s): Regulation(s) Commission Regulation (EU) 2026/250 correcting Regulation (EU) 2024/3190 on the use of bisphenol A (BPA) and other bisphenols and bisphenol derivatives with harmonized classification for specific hazardous properties in certain materials and articles intended to come into contact with food, amending Regulation (EU) No 10/2011 and repealing Regulation (EU) 2018/213

Test method(s) adopted: GTP_Chem_CPS_25120E.2023

Equipment(s) used: LC – MS-MS (Liquid Chromatograph – Mass Spectrometer- Mass Spectrometer).

S. No.	Analytes	CAS No.	Test Result – (µg/kg) Component No.		Conclusion
			A1	A2	
1.	Bisphenol A (BPA)	80-05-7	ND	ND	Pass
2.	Bisphenol S (BPS)	80-09-1	ND	ND	Pass
3.	Bisphenol AF (BPAF)	1478-61-1	ND	ND	Pass
4.	Bisphenol F (BPF)	620-92-8	ND	ND	Pass
5.	2,2-bis(4'-Hydroxyphenyl)-4-methylpentane (4,4'-Isobutylethylidenediphenol)	6807-17-6	ND	ND	Pass
6.	Tetrabromobisphenol A (TBBPA)	79-94-7	ND	ND	Pass
7.	Phenolphthalein	77-09-8	ND	ND	Pass

Limit of quantification: 0.001 mg/kg or 1µg/kg

Compliance Requirement/ Limit Max.: Absent (<0.001) mg/kg

TEST REPORT



Test Report No. GGN/H(FCM)/26/002360

Dated. 2026.08.17

Leakage Test (##)

Test Specification(s) / Requirement(s): As per Applicant's specified test conditions.

Test Duration: 4 hours (Hanged upside down)

Tested Sample	Test Result
Sample A - Pearl Jar (115 ml x 6) (690 ml) (Natural) (Container with White lid)	No Leakage observed.

Freezer Safe Test (##)

Test Specification(s) / Requirement(s): As per Applicant's specified test conditions.

Temperature of freezer: -18°F

Exposure period: 24 Hours

Tested Sample	Test Requirement	Test Result	Conclusion
Sample A - Pearl Jar (115 ml x 6) (690 ml) (Natural) (Container with White lid)	No discoloration, cracking, crazing, chipping, permanent deformation, No functionality loss.	No visual change has been observed.	Pass

Air Leakage Test (###)

Test Specification(s) / Requirement(s): As per Applicant's specified test conditions.

Test method(s) adopted: IHTM – A062

Tested Sample	Test Result(s) / Observation(s)
Sample A - Pearl Jar (115 ml x 6) (690 ml) (Natural) (Container with White lid) (As received)	No visual change observed Overall weight change– 0.04% Rating –100% air-tight: $x < 0.10\%$
Sample A - Pearl Jar (115 ml x 6) (690 ml) (Natural) (Container with White lid) (after dishwashing)	No visual change observed Overall weight change– 0.07% Rating –100% air-tight: $x < 0.10\%$

Abbreviations

“mg/kg” denotes milligram per kilogram & is equivalent to ppm (parts per million); “ND” denotes Not Detected or below limit of quantification; “°C” denotes degree Celsius; “%” denotes percent; “% (v/v)” denotes percent by volume.; “% (w/v)” denotes percent in terms of mass / weight per unit volume; “mg/dm²” denotes milligram per square decimetre; “mm” denotes millimetre; “g/m²” denotes Grams per Square Meter.

TEST REPORT



Test Report No. GGN/H(FCM)/26/002360

Dated. 2026.08.17

Appendix

1. According to Point 3.3.2 under Chapter 3 of Annex V of Regulation (EU) No 10/2011 and its amendments, the stability of repeated use material or article, the sample shall be considered non-compliant if:
 $m_{,3} > \text{OML}$, or,
 $m_{,1} < m_{,2}$, or,
 $m_{,2} < m_{,3}$, or,
 $m_{,1} < m_{,3}$
 The compliance with the OML and the stability rule shall be evaluated applying the following criteria:
 - If $(m_{,3} - \text{OML})/[(u(m_{,3}))] > 1.64$, then the third migration is higher than the OML,
 - If $(m_{,2} - m_{,1})/[(u(m_{,2}) + u(m_{,1}))] > 1.64$, then the first migration is smaller than the second migration,
 - If $(m_{,3} - m_{,2})/[(u(m_{,3}) + u(m_{,2}))] > 1.64$, then the second migration is smaller than the third migration,
 - If $(m_{,3} - m_{,1})/[(u(m_{,3}) + u(m_{,1}))] > 1.64$, the first migration is smaller than the third migration.

Where:
 - **OML** is the overall migration limit
 - **m** is the overall migration test result
 - **m_{,1}, m_{,2} and m_{,3}** are respectively the m during the first, the second and the third migration test
 - **u(m)** is the standard measurement uncertainty of m of the analytical method as determined by the laboratory.
2. According to Annex V of Regulation (EU) No 10/2011 and its amendments, the compliance with the SML shall be determined by evaluating m_c against the SML by applying the following specific performance criterion:

 If $(m_c - \text{SML})/[(u(m_c))] > 1.64$, then m_c exceeds the SML

Where:
 - **SML** is the specific migration limit
 - **m_c** is the specific migration test result of a substance
 - **u(m_c)** is the standard measurement uncertainty of m_c, which shall be determined by $u(m_c) = \text{CV}_R \times m_c$
 - **CV_R** is the reproducibility coefficient of variation
 - **CV_R = 0.22** for $m_c < 0.12 \times 10^{-6} \text{ kg/kg}$ and
 - **CV_R = $2^{(1-\frac{1}{2}\log(m_c))}/100$** for $0.12 \times 10^{-6} \text{ kg/kg} \leq m_c \leq 0.138 \text{ kg/kg}$
3. According to Point 2.1.6 under Chapter 2 of Annex V of Regulation (EU) No 10/2011 and its amendments, the stability of repeated use material or article, the sample shall be considered non-compliant if:
 $m_{c,3} > \text{SML}$, or,
 $m_{c,1} < m_{c,2}$, or,
 $m_{c,2} < m_{c,3}$, or,
 $m_{c,1} < m_{c,3}$
 The compliance with the SML and the stability rule shall be evaluated applying the following criteria:
 - If $(m_{c,3} - \text{SML})/[(u(m_{c,3}))] > 1.64$, then the third migration is higher than the SML,
 - If $(m_{c,2} - m_{c,1})/[(u(m_{c,2}) + u(m_{c,1}))] > 1.64$, then the first migration is smaller than the second migration,
 - If $(m_{c,3} - m_{c,2})/[(u(m_{c,3}) + u(m_{c,2}))] > 1.64$, then the second migration is smaller than the third migration,
 - If $(m_{c,3} - m_{c,1})/[(u(m_{c,3}) + u(m_{c,1}))] > 1.64$, the first migration is smaller than the third migration.

Where:
 - **SML** is the specific migration limit
 - **m_c** is the specific migration test result of a substance
 - **m_{c,1}, m_{c,2} and m_{c,3}** are respectively the m_c during the first, the second and the third migration test
 - **u(m_c)** is the standard measurement uncertainty of m_c, which shall be determined by $u(m_c) = \text{CV}_R \times m_c$
 - **CV_R** is the reproducibility coefficient of variation
 - **CV_R = 0.22** for $m_c < 0.12 \times 10^{-6} \text{ kg/kg}$ and
 - **CV_R = $2^{(1-\frac{1}{2}\log(m_c))}/100$** for $0.12 \times 10^{-6} \text{ kg/kg} \leq m_c \leq 0.138 \text{ kg/kg}$

--- END OF THE TEST REPORT ---