

Test Report

No.: HTF25500555M01

DATE: 2025/08/15

PAGE: 1 of 9

EZURIO LLC

50 SOUTH MAIN STREET, SUITE 1100, AKRON OHIO 44308, USA

The following sample(s) was/were submitted and identified by/on behalf of the applicant as :

Sample Submitted By : EZURIO LLC
 Sample Description : RS2xx LoRaWAN Sensor
 Sample Material : NO.1:SILICONE, NO.2:304 STAINLESS STEEL

Sample Receiving Date : 2025/03/04 and 2025/05/12 and 2025/05/13 and 2025/06/17
 Testing Period : 2025/03/04 to 2025/03/27 and 2025/05/12 to 2025/06/24 and
 2025/05/13 to 2025/06/02 and 2025/06/17 to 2025/07/29

Test Requested : (1) As specified by client, the sample(s) was/were tested with reference to European Directorate for the Quality of Medicines & Healthcare (EDQM) –Technical Guide on Metals and alloys used in food contact materials and articles (2nd edition, 2024), Regulation (EC) No. 1935/2004. Please refer to the result table for testing item(s).
 (2) As specified by client, the sample(s) was/were tested with reference to Regulation (EC) No.2024/3190 and hence Article 3 of Regulation (EC) No 1935/2004. Please refer to the result table for testing item(s).
 (3) As specified by client, the sample(s) was/were tested with reference to Council of Europe Resolution AP(2004) 5 and hence Article 3 of Regulation (EC) No 1935/2004. Please refer to the result table for testing item(s).

Test Result(s) : Please refer to next page(s).

* This report is a combined report of HTF25300042 and HTF25500555. *


 Singh Hsiao / Asst. Manager
 Signed for and on behalf of
 SGS TAIWAN LTD.
 Chemical Laboratory - Taipei



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Test Part Description

No.1 : SILVER COLORED METAL (HTF25300042 No.5)
No.2 : TRANSLUCENT SILICONE (HTF25500555)

Test Result(s)

(1)

PASS

Test Item(s)	Method	Unit	RL	Result		7xSRL	SRL
				No.1			
				1 st +2 nd	3 rd		
Extractable heavy metals (0.5% citric acid, 100°C, 2 h, repeated use)							
Zirconium (Zr)	With reference to EN 13130-1:2004, the analysis was performed by ICP-MS, ICP-OES.	mg/kg	0.2	n.d.	n.d.	14	2
Magnesium (Mg)		mg/kg	0.05	n.d.	n.d.	-	-
Aluminum (Al)		mg/kg	0.2	n.d.	n.d.	35	5
Barium (Ba)		mg/kg	0.25	n.d.	n.d.	8.4	1.2
Chromium (Cr)		mg/kg	0.1	0.154	n.d.	7	1
Copper (Cu)		mg/kg	0.1	n.d.	n.d.	28	4
Iron (Fe)		mg/kg	0.25	1.27	n.d.	280	40
Nickel (Ni)		mg/kg	0.05	n.d.	n.d.	0.98	0.14
Titanium (Ti)		mg/kg	0.05	n.d.	n.d.	-	-
Tin (Sn)		mg/kg	5	n.d.	n.d.	700	100
Zinc (Zn)		mg/kg	1	n.d.	n.d.	35	5
Cadmium (Cd)		mg/kg	0.002	n.d.	n.d.	0.035	0.005
Vanadium (V)		mg/kg	0.005	n.d.	n.d.	0.07	0.01
Cobalt (Co)		mg/kg	0.001	n.d.	n.d.	0.14	0.02
Arsenic (As)		mg/kg	0.001	n.d.	n.d.	0.014	0.002
Molybdenum (Mo)		mg/kg	0.02	n.d.	n.d.	0.84	0.12
Antimony (Sb)		mg/kg	0.02	n.d.	n.d.	0.28	0.04
Lead (Pb)		mg/kg	0.005	n.d.	n.d.	0.07	0.01
Thallium (Tl)		mg/kg	0.0001	n.d.	n.d.	0.007	0.001
Beryllium (Be)		mg/kg	0.005	n.d.	n.d.	0.07	0.01
Silver (Ag)		mg/kg	0.03	0.0583	n.d.	0.56	0.08
Lithium (Li)		mg/kg	0.02	n.d.	n.d.	0.336	0.048
Mercury (Hg)		mg/kg	0.002	n.d.	n.d.	0.021	0.003
Manganese (Mn)		mg/kg	0.01	0.0931	0.0450	0.49	0.07

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(1)

Test Item(s)	Method	Unit	RL	Result		7xSRL	SRL
				No.1			
				1 st +2 nd	3 rd		
Extractable heavy metals (0.5% citric acid, 70°C, 2 h, followed by 40°C, 24 h, repeated use)							
Zirconium (Zr)	With reference to EN 13130-1:2004, the analysis was performed by ICP-MS, ICP-OES.	mg/kg	0.2	n.d.	n.d.	14	2
Magnesium (Mg)		mg/kg	0.05	n.d.	n.d.	-	-
Aluminum (Al)		mg/kg	0.2	n.d.	n.d.	35	5
Barium (Ba)		mg/kg	0.25	n.d.	n.d.	8.4	1.2
Chromium (Cr)		mg/kg	0.1	n.d.	n.d.	7	1
Copper (Cu)		mg/kg	0.1	n.d.	n.d.	28	4
Iron (Fe)		mg/kg	0.25	0.831	n.d.	280	40
Nickel (Ni)		mg/kg	0.05	n.d.	n.d.	0.98	0.14
Titanium (Ti)		mg/kg	0.05	n.d.	n.d.	-	-
Tin (Sn)		mg/kg	5	n.d.	n.d.	700	100
Zinc (Zn)		mg/kg	1	n.d.	n.d.	35	5
Cadmium (Cd)		mg/kg	0.002	n.d.	n.d.	0.035	0.005
Vanadium (V)		mg/kg	0.005	n.d.	n.d.	0.07	0.01
Cobalt (Co)		mg/kg	0.001	n.d.	n.d.	0.14	0.02
Arsenic (As)		mg/kg	0.001	n.d.	n.d.	0.014	0.002
Molybdenum (Mo)		mg/kg	0.02	n.d.	n.d.	0.84	0.12
Antimony (Sb)		mg/kg	0.02	n.d.	n.d.	0.28	0.04
Lead (Pb)		mg/kg	0.005	n.d.	n.d.	0.07	0.01
Thallium (Tl)		mg/kg	0.0001	n.d.	n.d.	0.007	0.001
Beryllium (Be)		mg/kg	0.005	n.d.	n.d.	0.07	0.01
Silver (Ag)		mg/kg	0.03	n.d.	n.d.	0.56	0.08
Lithium (Li)		mg/kg	0.02	n.d.	n.d.	0.336	0.048
Mercury (Hg)		mg/kg	0.002	n.d.	n.d.	0.021	0.003
Manganese (Mn)		mg/kg	0.01	0.0371	0.0118	0.49	0.07

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(1)

Test Item(s)	Method	Unit	RL	Result		7xSRL	SRL
				No.1			
				1 st +2 nd	3 rd		
Extractable heavy metals (0.5% citric acid, filling the object at boiling temp. and leave it for 24 h, repeated use)							
Zirconium (Zr)	With reference to EN 13130-1:2004, the analysis was performed by ICP-MS, ICP-OES.	mg/kg	0.2	n.d.	n.d.	14	2
Magnesium (Mg)		mg/kg	0.05	n.d.	n.d.	-	-
Aluminum (Al)		mg/kg	0.2	n.d.	n.d.	35	5
Barium (Ba)		mg/kg	0.25	n.d.	n.d.	8.4	1.2
Chromium (Cr)		mg/kg	0.1	n.d.	n.d.	7	1
Copper (Cu)		mg/kg	0.1	n.d.	n.d.	28	4
Iron (Fe)		mg/kg	0.25	0.541	n.d.	280	40
Nickel (Ni)		mg/kg	0.05	n.d.	n.d.	0.98	0.14
Titanium (Ti)		mg/kg	0.05	n.d.	n.d.	-	-
Tin (Sn)		mg/kg	5	n.d.	n.d.	700	100
Zinc (Zn)		mg/kg	1	n.d.	n.d.	35	5
Cadmium (Cd)		mg/kg	0.002	n.d.	n.d.	0.035	0.005
Vanadium (V)		mg/kg	0.005	n.d.	n.d.	0.07	0.01
Cobalt (Co)		mg/kg	0.001	n.d.	n.d.	0.14	0.02
Arsenic (As)		mg/kg	0.001	n.d.	n.d.	0.014	0.002
Molybdenum (Mo)		mg/kg	0.02	n.d.	n.d.	0.84	0.12
Antimony (Sb)		mg/kg	0.02	n.d.	n.d.	0.28	0.04
Lead (Pb)		mg/kg	0.005	n.d.	n.d.	0.07	0.01
Thallium (Tl)		mg/kg	0.0001	n.d.	n.d.	0.007	0.001
Beryllium (Be)		mg/kg	0.005	n.d.	n.d.	0.07	0.01
Silver (Ag)		mg/kg	0.03	n.d.	n.d.	0.56	0.08
Lithium (Li)		mg/kg	0.02	n.d.	n.d.	0.336	0.048
Mercury (Hg)		mg/kg	0.002	n.d.	n.d.	0.021	0.003
Manganese (Mn)		mg/kg	0.01	0.0222	n.d.	0.49	0.07

Remark :

- Test condition & simulant were specified by client.
- The ratio of surface area to volume ratio was 6 dm² per 1 kg of foodstuff in contact with.
- SRL = Specific Release Limit
- According to Council of European Directorate for the Quality of Medicines & Healthcare (EDQM) –Technical Guide on Metals and alloys used in food contact materials and articles (2nd edition, 2024), 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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(2)

PASS

Test Item(s)	Method	Unit	RL	Result No.2			Limit
				1st	2nd	3rd	
Specific migration of 2,2-bis(4'-hydroxyphenyl)-4-methylpentane (CAS No.: 6807-17-6)	With reference to EN 13130-1: 2004, the analysis was performed by LC/MS/MS. (3% acetic acid, 20°C, 10 d)	mg/kg	0.001	n.d.	n.d.	n.d.	n.d.
Specific migration of Bisphenol A (BPA) (CAS No.: 80-05-7)		mg/kg	0.001	n.d.	n.d.	n.d.	n.d.
Specific migration of Bisphenol S (BPS) (CAS No.: 80-09-1)		mg/kg	0.001	n.d.	n.d.	n.d.	n.d.
Specific migration of Bisphenol AF(BPAF) (CAS No.: 1478-61-1)		mg/kg	0.001	n.d.	n.d.	n.d.	n.d.
Specific migration of Tetrabromobisphenol-A; 2,2',6,6'-tetrabromo-4,4'-isopropylidenediphenol (TBBPA) (CAS No.: 79-94-7)		mg/kg	0.001	n.d.	n.d.	n.d.	n.d.
Specific migration of Bis-[4-(2,3-epoxipropoxy)phenyl]propane (BADGE) (CAS No.: 1675-54-3) (#6)		mg/kg	0.001	n.d.	n.d.	n.d.	n.d.
Specific migration of Bisphenol M (BPM) (CAS No.: 13595-25-0) (#6)		mg/kg	0.001	n.d.	n.d.	n.d.	n.d.
Specific migration of Bisphenol B (BPB) (CAS No.: 77-40-7)		mg/kg	0.001	n.d.	n.d.	n.d.	n.d.
The ratio of surface area to volume for specific migration		dm²/kg	-	6.00			-
Stability				Compliant			-

Remark :

- (#6) Substances under evaluation as endocrine disruptors by ECHA and are having the risk to be categorized as "endocrine disrupting" for human health under Part 3 of Annex VI to Regulation (EC) No 1272/2008. Bisphenol M is not listed as authorised substance in table 1 Annex 1, Commission Regulation (EU) No 10/2011.

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(3)

PASS

Test Item(s)	Method	Unit	RL	Result	Limit
				No.2	
Overall Migration (3% acetic acid, 40°C, 10 d) (3rd migration)	With reference to EN 1186: 2022.	mg/dm²	3	n.d.	10 (■1)
Overall Migration (3% acetic acid, 100°C or reflux, 2 h) (3rd migration)		mg/dm²	3	n.d.	10 (■1)
Overall Migration (10% ethanol, 40°C, 10 d) (3rd migration)		mg/dm²	3	n.d.	10 (■1)
Overall Migration (10% ethanol, 100°C or reflux, 2 h) (3rd migration)		mg/dm²	3	n.d.	10 (■1)
Overall Migration (50% ethanol, 40°C, 10 d) (3rd migration)		mg/dm²	3	n.d.	10 (■1)
Overall Migration (50% ethanol, 100°C or reflux, 2 h) (3rd migration)		mg/dm²	3	n.d.	10 (■1)
Overall Migration (fatty food substitute: 95% ethanol, 40°C, 10 d) (3rd migration) (#1)		mg/dm²	3	6.1	10 (■1)
Overall Migration (fatty food substitute: isooctane, 20°C, 2 d) (3rd migration) (#1)		mg/dm²	3	n.d.	10 (■1)
Overall Migration (fatty food substitute: 95% ethanol, 60°C, 3.5 h) (3rd migration) (#1)		mg/dm²	3	7.05	10 (■1)
Overall Migration (fatty food substitute: isooctane, 60°C, 1.5 h) (3rd migration) (#1)		mg/dm²	3	5.85	10 (■1)
The ratio of surface area to volume for overall migration		dm²/kg	-	10.0	-

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Remark :

- (#1) Reduction factor of 2 is applied according to Commission Regulation (EU) No 10/2011 of 14 January 2011 Annex III, reference number 02.05A, 02.06A, 03.01, 03.02A.I, 03.02B.I, 05.02, 06.01A, 06.03A, 06.03B, 06.04A, 07.04B, 08.02A, 08.02B, 08.03A.I, 08.03B.I, 08.05, 08.06A, 08.08A, 08.11B and the end use of product is specified by client.
- (■1) Limit is according to Commission Regulation (EU) No 10/2011 of 14 January 2011 with amendments.
- Substitute test: test condition of OM2, OM5 in (EU) No 10/2011 is specified by client and conventional condition for the substitute tests instead of OM2, OM5 is based on EN 1186-1 and EN 13130-1.

Test condition with simulant D2	Test condition with simulant ethanol 95%	Test condition with simulant iso-Octane
10 d at 40°C	10 d at 40°C	2 d at 20°C
2 h at 100°C	3.5 h at 60°C	1.5 h at 60°C

Note:

1. mg/kg = ppm ; 0.1% = 1000 ppm
2. mg/dm² = milligram per square decimeter
3. RL = Reporting Limit
4. n.d. = Not Detected = Less than RL
5. "-" = No Regulated
6. °C = degree Celsius
7. Test condition and simulant were specified by client.
8. The report is invalid if it is partly reproduced or used.
9. The decision rule of the statements of conformity is following the ILAC G8:09/2019 by using the simple acceptance decision rule.

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* The tested sample / part is marked by an arrow if it's shown on the photo. *

No.1

HTF25300042



HTF25300042 NO.5



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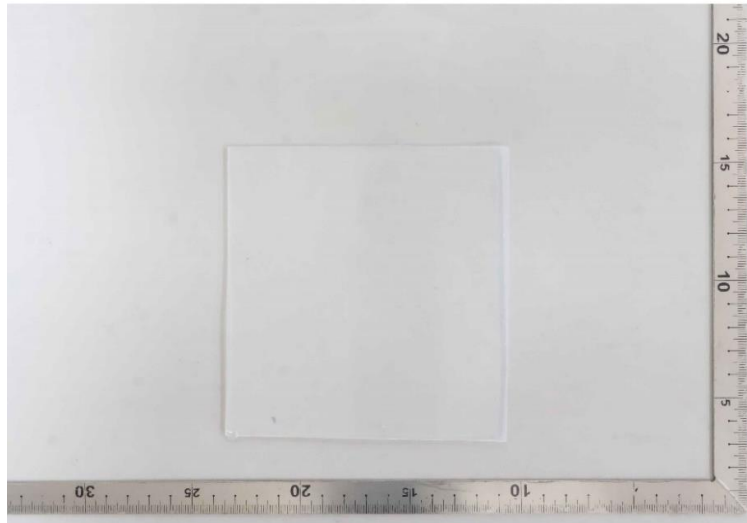
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EZURIO LLC

50 SOUTH MAIN STREET, SUITE 1100, AKRON OHIO 44308, USA

No.2

HTF25500555



**** End of Report ****

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