Test Report

No.: TAOHL25006078901 **Date:** Jul 18, 2025

Client Name: SHANDONG JINZHOU HEALTH INDUSTRY CO.,LTD

Client Address: NO.903,BUILDING A,SHANDONG BIG DATA INDUSTRY BASE,NO879 SHUNHUA ROAD,HIGH-TEACH ZONE,JINAN,SHANDONG,CHINA

Sample Description: TIN CAN

Item No.: 691#

P.O. No.: 538# 588# 5133# 636# 640# 691# 6113# 732# 749# 7104# 7108# 842# 8105# 9144# 9160# 1L 2L

The above sample(s) and information were provided by the client.

SGS No.: QDHL2506009551CW

Sample Receiving Date: Jun 30, 2025

Testing Period: Jun 30, 2025 ~ Jul 18, 2025

Test Requested: Select test(s) as requested by the client.

Testing Performed: Follow selected test(s) as requested by client.

	Test Requirement	Comment
1	Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004, 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) - Extractable Heavy Metals	Pass
2	Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004, Council of Europe Resolution AP (2004) 1, (EU) No 10/2011 and its amendment (EU) 2025/351 Regulation - Overall Migration	Pass
3	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) 2025/351 Regulation - Specific migration of heavy metals	Pass
4	Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004, European Commission Regulation 1895/2005/EC - Specific migration of BADGE,BADGE derivatives,BFDGE and NOGE	Pass
5	Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004 - Sensorial examination odour and taste test	Pass

Signed for and on behalf of
SGS-CSTC Standards Technical Services (Qingdao) Co., Ltd.

Alice Sun

Alice Sun
Approved Signatory

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Verification:
check.sgsonline.com.cn

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Test Result(s):

Test Part Description：

SN ID	Sample No.	SGS Sample ID	Description	Material (claimed by the client)
SN1	A1	TAO25-0060789-0001.C001	Silvery metal can with multi color coating outside, golden/white coating inside	Tin+ Coating

Remarks:

(1) mg/dm² = milligram per square decimeter
mg/inch² = milligram per square inches
μg/cm² = microgram per square centimeter
mg/L = milligram per litre
mg/kg = milligram per kilogram

(2) ℃ = degree Celsius
℉ = degree Fahrenheit

(3) <= less than

(4) RL = Reporting Limit

(5) ND = Not Detected (< RL).

The ratio of surface area to volume

Sample No	Overall Migration	Specific Migration
A1	8.2 dm²/kg	8.2 dm²/kg

Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004, 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) - Extractable Heavy Metals

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

Simulant used:	0.5% Citric acid
Test condition:	50 ºC, 10 days
Area/Volume	8.2dm²/kg

Test Item(s)	Unit(s)	RL	1st Migration	
			Limit	A1
Aluminium (Al)	mg/kg	0.2	5	ND
Antimony (Sb)	mg/kg	0.02	0.04	ND
Chromium(Cr)	mg/kg	0.1	1	ND
Cobalt(Co)	mg/kg	0.01	0.02	ND
Copper(Cu)	mg/kg	0.1	4	ND
Iron(Fe)	mg/kg	0.25	40	ND
Manganese(Mn)	mg/kg	0.25	0.55	ND
Molybdenum(Mo)	mg/kg	0.02	0.12	ND
Nickel(Ni)	mg/kg	0.05	0.14	ND

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Test Item(s)	Unit(s)	RL	1st Migration	
			Limit	A1
Silver(Ag)	mg/kg	0.03	0.08	ND
Tin(Sn)	mg/kg	5	100	ND
Vanadium(V)	mg/kg	0.005	0.01	ND
Zinc(Zn)	mg/kg	1	5	ND
Arsenic(As)	mg/kg	0.001	0.002	ND
Barium(Ba)	mg/kg	0.25	1.2	ND
Beryllium(Be)	mg/kg	0.005	0.01	ND
Cadmium(Cd)	mg/kg	0.002	0.005	ND
Lead(Pb)	mg/kg	0.005	0.01	ND
Lithium(Li)	mg/kg	0.02	0.048	ND
Mercury(Hg)	mg/kg	0.002	0.003	ND
Thallium(Tl)	mg/kg	0.0001	0.001	ND
Zirconium(Zr)	mg/kg	0.2	2	ND
Comment			**Pass**	

Notes:
(1) Test condition & simulant were specified by client.

Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004, Council of Europe Resolution AP (2004) 1, (EU) No 10/2011 and its amendment (EU) 2025/351 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; EN 1186-3:2022 Test methods for overall migration in evaporable simulants;

	Test Condition	
	20% Ethanol(V/V)	3% Acetic acid (W/V)
A1	40 ºC, 10 days	40 ºC, 10 days

Simulant used	Limit	Unit(s)	RL	A1 (1st)	Comment
20% Ethanol(V/V)	10	mg/dm²	3.0	ND	Pass
3% Acetic acid (W/V)	10	mg/dm²	3.0	5.0	Pass

Notes:
(1) Test condition & simulant were specified by client.
(2) For single use articles, the compliance is based on the first migration result with measurement uncertainty according to (EU) 2025/351.
(3) The sample was rusted during migration test of 3% Acetic acid.

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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) 2025/351 Regulation - Specific migration of heavy metals

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

Simulant	Test Condition
	A1
3% Acetic acid (W/V)	50 ºC, 10 days

Test Item(s)	Limit	Unit(s)	RL	A1
3% Acetic acid (W/V)				
Migration times				First
Arsenic(As)	ND	mg/kg	0.01	ND
Cadmium(Cd)	ND	mg/kg	0.002	ND
Chromium(Cr)	ND	mg/kg	0.01	ND
Mercury(Hg)	ND	mg/kg	0.01	ND
Lead(Pb)	ND	mg/kg	0.01	ND
Aluminium(Al)	1	mg/kg	0.2	ND
Barium(Ba)	1	mg/kg	0.2	ND
Cobalt(Co)	0.05	mg/kg	0.01	ND
Copper(Cu)	5	mg/kg	1.0	ND
Iron(Fe)	48	mg/kg	9.6	ND
Lithium(Li)	0.6	mg/kg	0.12	ND
Manganese(Mn)	0.6	mg/kg	0.12	ND
Zinc(Zn)	5	mg/kg	1.0	ND
Nickel (Ni)	0.02	mg/kg	0.01	ND
Antimony(Sb)	0.04	mg/kg	0.01	ND
Europium(Eu)	-	mg/kg	0.01	ND
Gadolinium(Gd)	-	mg/kg	0.01	ND
Lanthanum(La)	-	mg/kg	0.01	ND
Terbium(Tb)	-	mg/kg	0.01	ND
Europium (Eu)+ Gadolinium(Gd)+ Lanthanum(La)+ Terbium(Tb)	0.05	mg/kg	-	ND
Comment				**Pass**

Notes:
(1) Test condition & simulant were specified by client.
(2) For single use articles, the compliance is based on the first migration result with measurement uncertainty according to (EU) 2025/351. For substances which limit is “Not Detected”, the non-compliance is based on the first migration result if it is detected without the inclusion of measurement uncertainty.
(3) The sample was rusted during migration test of 3% Acetic acid.

Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004, European Commission Regulation 1895/2005/EC - Specific migration of BADGE,BADGE derivatives,BFDGE and NOGE

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Test Method: With reference to EN 13130-1:2004 and NF EN 15136:2006.

Simulant	Test Condition
	A1
3% Acetic acid (W/V)	50 ºC, 10 days

Test Item(s)	Limit	Unit(s)	RL	A1
3% Acetic acid (W/V)				
Migration times				First
Bisphenol F diglycidyl ether (BFDGE)	ND	mg/kg	0.2	ND
Novolac glycidyl ether (NOGE)	ND	mg/kg	0.2	ND
Bisphenol A bis(2,3-dihydroxypropyl) ether (BADGE.2H_2O)	-	mg/kg	1.8	ND
Bisphenol A diglycidyl ether (BADGE)	-	mg/kg	1.8	ND
Bisphenol A (2,3-dihydroxypropyl) glycidyl ether(BADGE.H_2O)	-	mg/kg	1.8	ND
Sum of (BADGE.2H_2O+BADGE+ BADGE.H_2O)	9	mg/kg	-	ND
Bisphenol A bis(3-Chloro-2-hydroxypropyl) ether (BADGE.2HCl)	-	mg/kg	0.2	ND
Bisphenol A (3-chloro-2-hydroxypropyl) glycidyl ether (BADGE.HCl)	-	mg/kg	0.2	ND
Bisphenol A (3-choloro-2-hydroxypropyl)-(2,3-dihydroxypropyl) ether (BADGE.H_2O.HCl)	-	mg/kg	0.2	ND
Sum of (BADGE.2HCl+ BADGE.HCl+BADGE.H_2O.HCl)	1	mg/kg	-	ND
Comment				**Pass**

Notes:
(1) Test condition & simulant were specified by client.
(2) For single use articles, the compliance is based on the first migration result with measurement uncertainty according to (EU) 2025/351. For substances which limit is “Not Detected”, the non-compliance is based on the first migration result if it is detected without the inclusion of measurement uncertainty.

Notes:
Sample A1: These tests were subcontracted to SGS-CSTC Standards Technical Services (Shanghai) Co.,Ltd..

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 DIN 10955: 2024.
No. of panelist: 6

Test Media	Test Condition
	A1
Distilled water	50 ºC, 10 days

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Test Item(s)	Limit	Unit(s)	A1
Area/Volume	-	dm²/kg	8.2
Sensorial examination odour	2.5	-	0
Sensorial examination taste	2.5	-	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

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