

TEST REPORT

Test Report # 23W-004633 Date of Report Issue: May 10, 2023

Date of Sample Received: April 12, 2023 Pages: Page 1 of 20

CLIENT INFORMATION:

Company: Polyconcept GBS

Recipient: Kathy Lu

Recipient Email: kathylu@polyconceptgbs.com

SAMPLE INFORMATION:

Description: Billy 26oz ECO Aluminum Bottle w/ FSC Bamboo Lid

Article No.: SM-6949WH/BK/NY Purchase Order Number: M000032905

Factory No.: 13643 Toy Co./Agency:

Vendor No.: 11684 Country of Origin: China

Country of Distribution: Canada, United States Labeled Age Grade: -

Quantity Submitted: 6 pcs per style Requested Age Grade: -

Testing Period: 04/18/2023-04/26/2023, Tested Age Grade: -

05/06/2023-05/10/2023

OVERALL RESULT:

Jeremy Xu

RC-CSHZ-R079

PASS

Please refer to the following pages for test result summary and appropriate notes.

QIMA (HANGZHOU) TESTING CO., LTD.

QIMA (HANGZHOU) TESTING CO., LTD.

Ada Guo

Josemy. Xu

Ada Guo

Chemical Laboratory Supervisor

Assist Physical Laboratory Manager

MA, Hangzhou) Testing Co., Ltd. • Room 401,4-5/F, Building 1,No.1213 Huoju South Road, Puyan Subdistrict, Binjiang District, Hangzhou, China
Email: Labtesting@qima.com • Tel: (86) 571 8999 7158.

Test(s) marked with ' ϕ ' was subcontracted to external laboratory.

ne teresult(s) and conclusion(s) in this report relate only to the sample(s) as received and method /regulation section(s) tested as described herein. 植验检测专用章 f it is not further specified in the report, the decision rule for stating conformity is based on the QIMA decision rule (https://www.qima.com/conditions-of-service#decisionRule).



Test Report #: 23W-004633 Page 2 of 20

TEST RESULTS SUMMARY:

RC-CSHZ-R079

At the request of the client, the following tests were conducted:

CONCLUSION	TEST(S) CONDUCTED
PASS	CPSIA Section 101 & 16 CFR 1303, Total Lead in Paints and Surface Coatings
PASS	California Proposition 65, Total Lead in Paints and Surface Coatings
PASS	California Proposition 65, Total Lead in Substrate Materials
PASS	Canadian Consumer Products Containing Lead Regulations (SOR/2018-83), Total Lead Content
PASS	Client's requirement, Bisphenol A content
PASS	Client's Requirement, Phthalates content
PASS	Client's Requirement, Leachable Cadmium and Lead in metal
PASS	FDA 21 CFR 177.1520, Polyethylene Homopolymer
PASS	FDA 21 CFR 177.1520, Polypropylene Homopolymers
PASS	FDA 21 CFR 175.300, Resinous and Polymeric Coatings
PASS	FDA 21 CFR 177.1210, Closures with Sealing Gaskets
PASS	19 CFR 134.11, Country of Origin
PASS	Marking of Imported Goods Order, (C.R.C., c.535), Country of Origin
PASS	16 CFR 1500.48 & 49 As received sharp point & edge



Test Report #: 23W-004633 Page 3 of 20

DETAILED RESULTS:

CPSIA Section 101 & 16 CFR 1303, Total Lead in Paints and Surface Coatings

Test Method: CPSC-CH-E1003-09.1

Analytical Method: Inductively Coupled Plasma-Optical Emission Spectrometry

Specimen No.	1+10	7+8+9				Limit
Test Item	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	(mg/kg)
Total Lead (Pb)	ND	ND				90
Conclusion	PASS	PASS				

Note:

RC-CSHZ-R079

mg/kg =Milligrams per kilogram

LT = Less than

ND = Not detected (Reporting Limit = 15 mg/kg)

Composite results are based on specimen of least mass resulting in highest potential concentration.



Test Report #: 23W-004633 Page 4 of 20

DETAILED RESULTS:

California Proposition 65, Total Lead in Paints and Surface Coatings

Test Method: CPSC-CH-E1003-09.1

Analytical Method: Inductively Coupled Plasma-Optical Emission Spectrometry

Specimen No.	1+10	7+8+9				Limit
Test Item	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	(mg/kg)
Total Lead (Pb)	ND	ND				90
Conclusion	PASS	PASS				

Note:

mg/kg =Milligrams per kilogram

LT = Less than

ND = Not detected (Reporting Limit = 15mg/kg)

Composite results are based on specimen of least mass resulting in highest potential concentration.

Remark:

RC-CSHZ-R079

The specification is quoted from client's requirement.



Test Report #: 23W-004633 Page 5 of 20

DETAILED RESULTS:

California Proposition 65, Total Lead in Substrate Materials

Test Method: CPSC-CH-E1001-08.3 (Metal), CPSC-CH-E1002-08.3 (Non-Metal)
Analytical Method: Inductively Coupled Plasma-Optical Emission Spectrometry

Specimen No.	2	3	4	5+13	6	Limit
Test Item	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	(mg/kg)
Total Lead (Pb)	ND	ND	ND	ND	42	100
Conclusion	PASS	PASS	PASS	PASS	PASS	

Specimen No.	14					Limit
Test Item	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	(mg/kg)
Total Lead (Pb)	ND					100
Conclusion	PASS					

Note:

mg/kg =Milligrams per kilogram

LT = Less than

ND = Not detected (Reporting Limit =15 mg/kg)

Composite results are based on specimen of least mass resulting in highest potential concentration.

Remark:

RC-CSHZ-R079

The specification is quoted from client's requirement.



Test Report #: 23W-004633 Page 6 of 20

DETAILED RESULTS:

Canadian Consumer Products Containing Lead Regulations (SOR/2018-83), Total Lead Content

Test Method: ASTM F963-17 Clause 8.3.1

Analytical Method: Inductively Coupled Plasma-Optical Emission Spectrometry

Specimen No.	3					Limit
Test Item	Result	Result	Result	Result	Result	(mg/kg)
rest item	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(0, 0,
Total Lead (Pb)	ND					90
Conclusion	PASS					

Note:

RC-CSHZ-R079

mg/kg=Milligrams per kilogram)

LT = Less than

ND = Not detected (Reporting Limit = 15 mg/kg)



Test Report #: 23W-004633 Page 7 of 20

DETAILED RESULTS:

Client's requirement, Bisphenol A content

Test Method: In-House Method

Analytical Method: Liquid Chromatography-Mass Spectrometer Mass Spectrometer (LC-MS/MS)

Specimen No.		3	5	10	13	Client's
Test Item	CAS No.	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	limit (mg/kg)
Bisphenol A (BPA) 80-05-7		ND	ND	ND	ND	Not Detected
Conclus	ion	PASS	PASS	PASS	PASS	

Specimen No.		14				Client's
Test Item	CAS No.	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	limit (mg/kg)
Bisphenol A (BPA)	80-05-7	ND				Not Detected
Conclusi	ion	PASS				

Note:

RC-CSHZ-R079

mg/kg=milligram per kilogram

ND=Not Detected(Reporting limit = 1.0mg/kg)



Test Report #: 23W-004633 Page 8 of 20

DETAILED RESULTS:

Client's Requirement, Phthalates content

Test Method: CPSC-CH-C1001-09.4

Analytical Method: Gas Chromatography with Mass Spectrometry

Specimen N	Specimen No.		3+14	5+13	7+8+9	Limit
Test Item	CAS No.	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	(mg/kg)
Dibutyl phthalate (DBP)	84-74-2	ND	ND	ND	ND	1000
Benzyl butyl phthalate (BBP)	85-68-7	ND	ND	ND	ND	1000
Di-(2-ethylhexyl) phthalate (DEHP)	117-81-7	ND	ND	ND	319	1000
Diisononyl phthalate (DINP)	28553-12-0 68515-48-0	ND	ND	ND	ND	1000
Diisodecyl phthalate (DIDP)	26761-40-0 68515-49-1	ND	ND	ND	ND	1000
Di-n-octyl phthalate (DnOP)	117-84-0	ND	ND	ND	ND	1000
Di-n-hexyl phthalate (DHEXP / DnHP)	84-75-3	ND	ND	ND	ND	1000
Dicyclohexyl phthalate (DCHP)	84-61-7	ND	ND	ND	ND	1000
Diisobutyl phthalate (DIBP)	84-69-5	ND	ND	ND	ND	1000
Di-n-pentyl phthalate (DPENP)	131-18-0	ND	ND	ND	ND	1000
Conclusion	1	PASS	PASS	PASS	PASS	

Note:

RC-CSHZ-R079

mg/kg = Milligrams per kilogram

LT = Less than

ND = Not detected (Reporting Limit = 150 mg/kg)

Composite results are based on specimen of least mass resulting in highest potential concentration.

Test(s) marked with ' ϕ ' was subcontracted to external laboratory.

The tense tense to result to and conclusion(s) in this report relate only to the sample(s) as received and method /regulation section(s) tested as described herein.

| Application of the provided in the report, the decision rule for stating conformity is based on the QIMA decision rule (https://www.aima.com/conditions-of-service#decisionRule).



Test Report #: 23W-004633 Page 9 of 20

DETAILED RESULTS:

Client's Requirement, Leachable Cadmium and Lead in metal

Test Method: ASTM C738-94(Reapproved 2020)

Analytical Method: Inductively Coupled Plasma-Optical Emission Spectrometry

Specimen No.	12-A	12-B	12-C	12-D	12-E	12-F		
Test Item	Result (mg/L)	Result (mg/L)	Result (mg/L)	Result (mg/L)	Result (mg/L)	Result (mg/L)	Average (mg/L)	Limit (mg/L)
Volume of acid used (mL)	850	850	850	850	850	850		
Leachable Lead (Pb)	ND	ND	ND	ND	ND	ND	ND	3.0
Leachable Cadmium (Cd)	ND	ND	ND	ND	ND	ND	ND	0.5
Conclusion	PASS	PASS	PASS	PASS	PASS	PASS	PASS	

Note:

mL = Millilitres

mg/L (Milligrams per litre) = ppm (Parts per million)

NA = Not applicable

LT = Less than

RC-CSHZ-R079

ND = Not detected (Reporting Limit: Pb = 0.2 mg/L; Cd = 0.02 mg/L)



Test Report #: 23W-004633 Page 10 of 20

DETAILED RESULTS:

FDA 21 CFR 177.1520, Polyethylene Homopolymer

Test Method: FDA 21 CFR 177.1520

Specimen No.			14			
Test Item	Temp.	Duration	Result	Result	RL	Limit
Density (g/cc)	NA	NA	0.87		NA	0.85-1.00
n-Hexane Extractive (%)	50°C	2 Hours	0.5		0.4	5.5
Xylene Extractive (%)	Reflux	2 Hours or Until Total Dissolved	2.6		1.0	11.3
		Conclusion	PASS			

Note:

Temp. = Temperature

°C = Degree Celsius

g/cc = Grams per cubic centimeter

% = Percent by weight

NA = Not applicable

LT = Less than

ND = Not detected. Result value is less than reporting limit (RL).

Remark:

RC-CSHZ-R079

The specification is quoted from 21 CFR 177.1520 (c) 2.1.



Test Report #: 23W-004633 Page 11 of 20

DETAILED RESULTS:

FDA 21 CFR 177.1520, Polypropylene Homopolymers

Test Method: FDA 21 CFR 177.1520

Specim	Specimen No.					
Toot Itom	Test C	Condition	Result	RL	Limit	
Test Item	Temp.	Duration	Result			
Density (g/cc)	NA	NA	0.900	NA	0.880 -	
Defisity (g/cc)	INA	IVA	0.500	IVA	0.913	
Melting point (°C)	NA	NA	162	NA	150 – 180	
n-Hexane extractive (% w/w)	Reflux	2 hours	0.5	0.1	6.4	
Xylene extractive (% w/w)	Reflux	2 hours	0.5	0.5	9.8	
Concl	Conclusion					

Note:

Temp. = Temperature

°C = Degree Celsius
g/cc = Grams per cubic centimeter
% w/w = Percent by weight

NA = Not applicable

LT = Less than

ND = Not detected. Result value is less than reporting limit (RL).

Remark:

RC-CSHZ-R079

The specification is quoted from 21 CFR 177.1520 (c) 1.1.



Test Report #: 23W-004633 Page 12 of 20

DETAILED RESULTS:

FDA 21 CFR 175.300, Resinous and Polymeric Coatings

Test Method: FDA 21 CFR 175.300

Specimen No.			11		
Tost Itam	Test Condition		Docul+	RL	Limit
Test Item	Temp.	Duration	Result		
Distilled water extractive (mg/in²)	Fill boiling	Cooling to 100°F	ND	0.1	18
n-Heptane extractive (mg/in²)	120°F	0.25 hours	ND	0.1	18
8% Ethanol extractive (mg/in²) Fill boiling Cooling to 100°F		ND	0.1	18	
Conclusion			PASS		

Specimen No.			12		
Tost Itam	Test Condition		Docult	RL	Limit
Test Item	Temp.	Duration	Result		
Distilled water extractive (mg/in²)	Fill boiling	Cooling to 100°F	ND	0.1	18
n-Heptane extractive (mg/in²)	120°F	0.25 hours	ND	0.1	18
8% Ethanol extractive (mg/in²) Fill boiling Cooling to 100°F		ND	0.1	18	
Conclusion	PASS				

Note:

Temp. = Temperature

°F = Degree Fahrenheit

mg/in²= Milligrams per square inch

LT = Less than

ND = Not detected. Result value is less than reporting limit (RL).

Remark:

RC-CSHZ-R079

The specification is quoted from 21 CFR 175.300 (c) (3).



Test Report #: 23W-004633 Page 13 of 20

DETAILED RESULTS:

FDA 21 CFR 175.300, Resinous and Polymeric Coatings

Test Method: FDA 21 CFR 175.300

Specimen No.			15		
Tost Itam	Test Condition		Docul+	RL	Limit
Test Item	Temp.	Duration	Result		
Distilled water extractive (mg/in²)	Fill boiling	Cooling to 100°F	ND	0.1	18
n-Heptane extractive (mg/in²)	120°F	0.25 hours	ND	0.1	18
8% Ethanol extractive (mg/in²) Fill boiling Cooling to 100°F		ND	0.1	18	
Conclusion			PASS		

Note:

Temp. = Temperature °F = Degree Fahrenheit mg/in²= Milligrams per square inch

LT = Less than

ND = Not detected. Result value is less than reporting limit (RL).

Remark:

RC-CSHZ-R079

The specification is quoted from 21 CFR 175.300 (c) (3).



Test Report #: 23W-004633 Page 14 of 20

DETAILED RESULTS:

FDA 21 CFR 177.1210, Closures with Sealing Gaskets

Test Method: FDA 21 CFR 177.1210

Specimen No.					
Test Item	Test Condition		Docult	RL	Limit
restiteili	Temp.	Duration	Result		
Distilled water extractive (mg/kg)	Fill boiling	Cooling to 100°F	ND	10	50
n-Heptane extractive (mg/kg)	120°F	0.25 hours	ND	10	50
8% Ethanol extractive (mg/kg) Fill boiling Cooling to 100°F		ND	10	50	
Conclu	PASS				

Specimen No.			13		
Test Item	Test Condition		Result RL	RL	Limit
restitem	Temp.	Duration	Result		
Distilled water extractive (mg/kg)	Fill boiling	Cooling to 100°F	ND	10	50
n-Heptane extractive (mg/kg)	120°F	0.25 hours	ND	10	50
8% Ethanol extractive (mg/kg)	Fill boiling	Cooling to 100°F	ND	10	50
Conclusion			PASS		

Note:

Temp. = Temperature

°F = Degree Fahrenheit

ppm (Parts per million) = mg/kg (Milligrams per kilogram)

LT = Less than

ND = Not detected. Result value is less than reporting limit (RL).

Remark:

RC-CSHZ-R079

The specification is quoted from 21 CFR 177.1210 Table 2 Section 3.



Test Report #: 23W-004633 Page 15 of 20

DETAILED RESULTS:

RC-CSHZ-R079

19 CFR 134.11, Country of Origin

Test	Observation	Conclusion
Country of Origin	Present on product and can be read easily by consumer at the point of sale	PASS



Test Report #: 23W-004633 Page 16 of 20

DETAILED RESULTS:

RC-CSHZ-R079

Marking of Imported Goods Order, (C.R.C., c.535), Country of Origin

Section	Requirement	Conclusion
2	Country of Origin Markings	PASS



Test Report #: 23W-004633 Page 17 of 20

DETAILED RESULTS:

RC-CSHZ-R079

16 CFR 1500.49 As received sharp edge

Test	Observation	Conclusion
Sharp Edges	No Sharp edge.	PASS

Remark: Only test straws as per client's request.



Page 18 of 20 Test Report #: 23W-004633

SPECIMEN DESCRIPTION:

检验检测专用章

RC-CSHZ-R079

Specimen No.	Specimen Description	Location
1	Translucent lacquer	Raw material-lid cover (all styles)
2	Natural bamboo	Lid cover (all styles)
3	Black plastic	Inner lid/nozzle/thread (all styles)
4	Silvery metal	Handle (all styles)
5	Translucent soft plastic	Sealing ring (all styles)
6	Silvery metal	Main body (all styles)
7	White coating	Main body (SM-6949WH)
8	Black coating	Main body (SM-6949BK)
9	Navy coating	Main body (SM-6949NY)
10	Translucent lacquer	Raw material-interior (all styles)
11	Silvery metal with translucent lacquer	Interior (SM-6949NY)
12	Silvery metal with translucent lacquer	Interior (SM-6949BK)
13	Translucent soft plastic	Pore plug (all styles)
14	Translucent plastic	Straw (all styles)
15	Silvery metal with translucent lacquer	Interior (SM-6949WH)





Test Report #: 23W-004633

SAMPLE PHOTO:

检验检测专用章

RC-CSHZ-R079





Test(s) marked with ' ϕ ' was subcontracted to external laboratory.

the terresults and conclusion(s) in this report relate only to the sample(s) as received and method /regulation section(s) tested as described herein. f it is not further specified in the report, the decision rule for stating conformity is based on the QIMA decision rule (https://www.gima.com/conditions-of-service#decisionRule).





Test Report #: 23W-004633

SAMPLE PHOTO:

检验检测专用章

RC-CSHZ-R079





-End Report-

Test(s) marked with ' ϕ ' was subcontracted to external laboratory.

Five terms (and conclusion(s) in this report relate only to the sample(s) as received and method /regulation section(s) tested as described herein. f it is not further specified in the report, the decision rule for stating conformity is based on the QIMA decision rule (https://www.gima.com/conditions-of-service#decisionRule).