

TEST REPORT

Test Report # 21W-000532 Date of Report Issue: January 22, 2021
Date of Sample Received: January 12, 2021 Pages: Page 1 of 12

CLIENT INFORMATION:

Company: Polyconcept GBS
Recipient: kathy lu
Recipient Email: kathy.lu@polyconceptgbs.com



SAMPLE INFORMATION:

Description: Santos 12oz Ceramic Mug
Article No.: SM-6355BK/GY Purchase Order Number: -
Factory No.: 13300 Toy Co./Agency: -
Vendor No.: 11535 Country of Origin: China
Country of Distribution: United States Labeled Age Grade: -
Quantity Submitted: 24pcs per color Requested Age Grade: -
Testing Period: 01/12/2021-01/21/2021 Tested Age Grade: -

OVERALL RESULT:

PASS

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

QIMA (HANGZHOU) TESTING CO., LTD.

Vicky Yu

Vicky Yu
Chemical Laboratory Supervisor



TEST RESULTS SUMMARY:

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

CONCLUSION	TEST(S) CONDUCTED
PASS	California Proposition 65, Total Lead in Substrate Materials
PASS	FDA CPG 545.400 & CPG 545.450, Leachable Cadmium and Lead from Ceramics – Interior
PASS	California Proposition 65 Case No. CGC-04-436429, Lead and Cadmium from Beverage Products – External Decoration
PASS	California Proposition 65 Case No. 938430, Leachable Lead and Cadmium from Tableware (Shipment over 2,000 Pieces) – Interior
PASS	Canadian Glazed Ceramics and Glassware Regulations SOR/2016-175, Leachable Lead and Cadmium from Ceramics and Glassware – Interior



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.	5	6	---	---	---	Limit (mg/kg)
Test Item	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	
Total Lead (Pb)	19	20	---	---	---	100
Conclusion	PASS	PASS	---	---	---	

Note:

mg/kg =Milligrams per kilogram

LT = Less than

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

Remark:

The specification is quoted from client's requirement.



DETAILED RESULTS:

FDA CPG 545.400 & CPG 545.450, Leachable Cadmium and Lead from Ceramics – Interior

Test Method: ASTM C738-94(Reapproved 2016)
 Analytical Method: Inductively Coupled Plasma-Optical Emission Spectrometry

Specimen No.	1-A	1-B	1-C	1-D	1-E	1-F	Average (mg/L)	Limit (mg/L)
Test Item	Result (mg/L)	Result (mg/L)	Result (mg/L)	Result (mg/L)	Result (mg/L)	Result (mg/L)		
Volume of acid used (mL)	360	360	360	360	360	360		
Leachable Lead (Pb)	ND	ND	ND	ND	ND	ND	NA	0.5
Leachable Cadmium (Cd)	ND	ND	ND	ND	ND	ND	NA	0.5
Conclusion	PASS	PASS	PASS	PASS	PASS	PASS	NA	

Note:

- mL = Millilitres
- mg/L (Milligrams per litre) = ppm (Parts per million)
- NA = Not applicable
- LT = Less than
- ND = Not detected (Reporting Limit: Pb = 0.1 mg/L; Cd = 0.02 mg/L)

Category		Leachable Pb (mg/L)	Leachable Cd (mg/L)
X	Cups and Mugs (Any of 6)	0.5	0.5
	Flatware (Average of 6)	3.0	0.5
	Large Hollowware (Any of 6)	1.0	0.25
	Small Hollowware (Any of 6)	2.0	0.5
	Pitchers (Any of 6)	0.5	0.25



DETAILED RESULTS:

FDA CPG 545.400 & CPG 545.450, Leachable Cadmium and Lead from Ceramics – Interior

Test Method: ASTM C738-94(Reapproved 2016)
 Analytical Method: Inductively Coupled Plasma-Optical Emission Spectrometry

Specimen No.	2-A	2-B	2-C	2-D	2-E	2-F	Average (mg/L)	Limit (mg/L)
Test Item	Result (mg/L)	Result (mg/L)	Result (mg/L)	Result (mg/L)	Result (mg/L)	Result (mg/L)		
Volume of acid used (mL)	360	360	360	360	360	360		
Leachable Lead (Pb)	ND	ND	ND	ND	ND	ND	NA	0.5
Leachable Cadmium (Cd)	ND	ND	ND	ND	ND	ND	NA	0.5
Conclusion	PASS	PASS	PASS	PASS	PASS	PASS	NA	

Note:

- mL = Millilitres
- mg/L (Milligrams per litre) = ppm (Parts per million)
- NA = Not applicable
- LT = Less than
- ND = Not detected (Reporting Limit: Pb = 0.2 mg/L; Cd = 0.02 mg/L)

Category		Leachable Pb (mg/L)	Leachable Cd (mg/L)
X	Cups and Mugs (Any of 6)	0.5	0.5
	Flatware (Average of 6)	3.0	0.5
	Large Hollowware (Any of 6)	1.0	0.25
	Small Hollowware (Any of 6)	2.0	0.5
	Pitchers (Any of 6)	0.5	0.25



DETAILED RESULTS:

California Proposition 65 Case No. CGC-04-436429, Lead and Cadmium from Beverage Products – External Decoration

Test Method: NIOSH Method 9100

Analytical Method: Inductively Coupled Plasma-Optical Emission Spectrometry

Specimen No.	3	4	---	---	---	Limit (µg/article)
Test Item	Result (µg/article)	Result (µg/article)	Result (µg/article)	Result (µg/article)	Result (µg/article)	
Lead (Pb)	ND	ND	---	---	---	1.0
Cadmium (Cd)	ND	ND	---	---	---	1.0
Conclusion	PASS	PASS	---	---	---	

Note:

µg/article = Micrograms per article

LT = Less than

ND = Not detected (Reporting Limit = 0.4 µg/article)



DETAILED RESULTS:

California Proposition 65 Case No. 938430, Leachable Lead and Cadmium from Tableware (Shipment over 2,000 Pieces) – Interior

Test Method: ASTM C738-94(Reapproved 2016)
 Analytical Method: Inductively Coupled Plasma-Optical Emission Spectrometry

Specimen No.	1-A	1-B	1-C	1-D	1-E	1-F	1-G
Test Item	Result (mg/L)	Result (mg/L)	Result (mg/L)	Result (mg/L)	Result (mg/L)	Result (mg/L)	Result (mg/L)
Volume of acid used (mL)	360	360	360	360	360	360	360
Leachable Lead (Pb)	ND	ND	ND	ND	ND	ND	ND
Leachable Cadmium (Cd)	ND	ND	ND	ND	ND	ND	ND
Conclusion							

Specimen No.	1-H	1-I	1-J	1-K	1-L	Average (mg/L)	Limit (mg/L)
Test Item	Result (mg/L)	Result (mg/L)	Result (mg/L)	Result (mg/L)	Result (mg/L)		
Volume of acid used (mL)	360	360	360	360	360		
Leachable Lead (Pb)	ND	ND	ND	ND	ND	ND	0.100
Leachable Cadmium (Cd)	ND	ND	ND	ND	ND	ND	0.049
Conclusion						PASS	

Note:

- mL = Millilitres
- mg/L (Milligrams per litre) = ppm (Parts per million)
- NA = Not applicable
- LT = Less than
- ND = Not detected (Reporting Limit: Pb = 0.1 mg/L; Cd = 0.02 mg/L)

Category		Leachable Pb (mg/L)	Leachable Cd (mg/L)
X	Cups and Mugs (Average of 12)	0.100	0.049
	Flatware (Average of 12)	0.226	0.189
	Large Hollowware (Average of 12)	0.100	0.049
	Small Hollowware (Average of 12)	0.100	0.049
	Pitchers (Average of 12)	0.100	0.049



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

The test result(s) and conclusion(s) in this report relate only to the sample(s) as received and method /regulation section(s) tested as described herein. If it is not further specified in the report, the decision rule for stating conformity is based on the QIMA decision rule.

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DETAILED RESULTS:

California Proposition 65 Case No. 938430, Leachable Lead and Cadmium from Tableware (Shipment over 2,000 Pieces) – Interior

Test Method: ASTM C738-94(Reapproved 2016)
 Analytical Method: Inductively Coupled Plasma-Optical Emission Spectrometry

Specimen No.	2-A	2-B	2-C	2-D	2-E	2-F	2-G
Test Item	Result (mg/L)	Result (mg/L)	Result (mg/L)	Result (mg/L)	Result (mg/L)	Result (mg/L)	Result (mg/L)
Volume of acid used (mL)	360	360	360	360	360	360	360
Leachable Lead (Pb)	ND	ND	ND	ND	ND	ND	ND
Leachable Cadmium (Cd)	ND	ND	ND	ND	ND	ND	ND
Conclusion							

Specimen No.	2-H	2-I	2-J	2-K	2-L	Average (mg/L)	Limit (mg/L)
Test Item	Result (mg/L)	Result (mg/L)	Result (mg/L)	Result (mg/L)	Result (mg/L)		
Volume of acid used (mL)	360	360	360	360	360		
Leachable Lead (Pb)	ND	ND	ND	ND	ND	ND	0.100
Leachable Cadmium (Cd)	ND	ND	ND	ND	ND	ND	0.049
Conclusion						PASS	

Note:

- mL = Millilitres
- mg/L (Milligrams per litre) = ppm (Parts per million)
- NA = Not applicable
- LT = Less than
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DETAILED RESULTS:

Canadian Glazed Ceramics and Glassware Regulations SOR/2016-175, Leachable Lead and Cadmium from Ceramics and Glassware – Interior

Test Method: ISO 6486-1:2019

Analytical Method: Inductively Coupled Plasma-Optical Emission Spectrometry

Specimen No.	1-A	1-B	1-C	1-D	1-E	1-F	Limit (mg/L)
Test Item	Result (mg/L)	Result (mg/L)	Result (mg/L)	Result (mg/L)	Result (mg/L)	Result (mg/L)	
Volume of acid used (mL)	360	360	360	360	360	360	
Leachable Lead (Pb)	ND	ND	ND	ND	ND	ND	0.5
Leachable Cadmium (Cd)	ND	ND	ND	ND	ND	ND	0.50
Conclusion	PASS	PASS	PASS	PASS	PASS	PASS	

Note:

mL = Millilitres

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

LT = Less than

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

Category		Leachable Pb (mg/L)	Leachable Cd (mg/L)
X	Cups and Mugs (Any of 6)	0.5	0.50
	Flatware (Any of 6)	3.0	0.50
	Large Hollowware (Any of 6)	1.0	0.25
	Small Hollowware (Any of 6)	2.0	0.50
	Pitchers (Any of 6)	0.5	0.25



DETAILED RESULTS:

Canadian Glazed Ceramics and Glassware Regulations SOR/2016-175, Leachable Lead and Cadmium from Ceramics and Glassware – Interior

Test Method: ISO 6486-1:2019

Analytical Method: Inductively Coupled Plasma-Optical Emission Spectrometry

Specimen No.	2-A	2-B	2-C	2-D	2-E	2-F	Limit (mg/L)
Test Item	Result (mg/L)	Result (mg/L)	Result (mg/L)	Result (mg/L)	Result (mg/L)	Result (mg/L)	
Volume of acid used (mL)	360	360	360	360	360	360	
Leachable Lead (Pb)	ND	ND	ND	ND	ND	ND	0.5
Leachable Cadmium (Cd)	ND	ND	ND	ND	ND	ND	0.50
Conclusion	PASS	PASS	PASS	PASS	PASS	PASS	

Note:

mL = Millilitres

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

LT = Less than

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

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X	Cups and Mugs (Any of 6)	0.5	0.50
	Flatware (Any of 6)	3.0	0.50
	Large Hollowware (Any of 6)	1.0	0.25
	Small Hollowware (Any of 6)	2.0	0.50
	Pitchers (Any of 6)	0.5	0.25



SPECIMEN DESCRIPTION:

Specimen No.	Specimen Description	Location
1	White printed black ceramic	Interior (black style)
2	White printed grey ceramic	Interior (grey style)
3	White printed black/light brown ceramic	Exterior (black style)
4	White printed grey/light brown ceramic	Exterior (grey style)
5	White printed black/light brown ceramic	Main body (black style)
6	White printed grey/light brown ceramic	Main body (grey style)



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SAMPLE PHOTO:



-End Report-

