TEST REPORT

Test Report #	23W-010134	Date of Report Issue:	August 2, 2023
Date of Sample Received:	July 14, 2023	Pages:	Page 1 of 15

CLIENT INFORMATION:

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

SAMPLE INFORMATION:

Description:	Santos 12oz Ceramic Mug		
Article No.:	SM-6355GY/BK/WH	Purchase Order Number:	M000035252/ M000035250/ M000035255
Factory No.:	12333	Toy Co./Agency:	-
Vendor No.:	11236	Country of Origin:	China
Country of Distribution:	Canada, United States	Labeled Age Grade:	-
Quantity Submitted:	20 pcs per color	Requested Age Grade:	-
Testing Period:	07/18/2023-07/26/2023, 08/01/2023-08/02/2023	Tested Age Grade:	-

OVERALL RESULT: **PASS**

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

QIMA (HANGZHOU) TESTING CO., LTD.

Ada Guo

Ada Guo
Assist Physical Laboratory Manager

QIMA (HANGZHOU) TESTING CO., LTD.

Jeremy. Xu

Jeremy Xu
Chemical Laboratory Supervisor

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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, Leachable Lead and Cadmium from Food Contact Articles – Interior
PASS	Canadian Glazed Ceramics and Glassware Regulations SOR/2016-175, Leachable Lead and Cadmium from Ceramics and Glassware – Interior
PASS	Client-Performance Requirement-Thermal Shock
PASS	19 CFR 134.11-Country of Origin-Labeling Review

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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.	4	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)	28	ND	32	---	---	**100**
Conclusion	PASS	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.

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DETAILED RESULTS:

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

Test Method: ASTM C738-94(Reapproved 2020)
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)	400	400	400	400	400	400		
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

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DETAILED RESULTS:

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

Test Method: ASTM C738-94(Reapproved 2020)
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)	400	400	400	400	400	400		
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
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	Small Hollowware	(Any of 6)	2.0	0.5
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DETAILED RESULTS:

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

Test Method: ASTM C738-94(Reapproved 2020)
Analytical Method: Inductively Coupled Plasma-Optical Emission Spectrometry

Specimen No.	3-A	3-B	3-C	3-D	3-E	3-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)	400	400	400	400	400	400		
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
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DETAILED RESULTS:

California Proposition 65, Leachable Lead and Cadmium from Food Contact Articles – Interior

Test Method: ASTM C738-94(Reapproved 2020)
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)	400	400	400	400	400	400		
Leachable Lead (Pb)	ND	ND	ND	ND	ND	ND	NA	**0.100**
Leachable Cadmium (Cd)	ND	ND	ND	ND	ND	ND	NA	**0.189**
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)	**0.100**	**0.189**
	Flatware	(Average of 6)	**0.226**	**0.5**
	Large Hollowware	(Any of 6)	**0.100**	**0.049**
	Small Hollowware	(Any of 6)	**0.100**	**0.189**
	Pitchers	(Any of 6)	**0.100**	**0.049**

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DETAILED RESULTS:

California Proposition 65, Leachable Lead and Cadmium from Food Contact Articles – Interior

Test Method: ASTM C738-94(Reapproved 2020)
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)	400	400	400	400	400	400		
Leachable Lead (Pb)	ND	ND	ND	ND	ND	ND	NA	**0.100**
Leachable Cadmium (Cd)	ND	ND	ND	ND	ND	ND	NA	**0.189**
Conclusion	PASS	PASS	PASS	PASS	PASS	PASS	NA	

Note:
mL = Millilitres
mg/L (Milligrams per litre) = ppm (Parts per million)
NA = Not applicable
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California Proposition 65, Leachable Lead and Cadmium from Food Contact Articles – Interior

Test Method: ASTM C738-94(Reapproved 2020)
Analytical Method: Inductively Coupled Plasma-Optical Emission Spectrometry

Specimen No.	3-A	3-B	3-C	3-D	3-E	3-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)	400	400	400	400	400	400		
Leachable Lead (Pb)	ND	ND	ND	ND	ND	ND	NA	**0.100**
Leachable Cadmium (Cd)	ND	ND	ND	ND	ND	ND	NA	**0.189**
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
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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	
Test Item	Result (mg/L)	Result (mg/L)	Result (mg/L)	Result (mg/L)	Result (mg/L)	Result (mg/L)	**Limit (mg/L)**
Volume of acid used (mL)	400	400	400	400	400	400	
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**

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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.	2-A	2-B	2-C	2-D	2-E	2-F	
Test Item	Result (mg/L)	Result (mg/L)	Result (mg/L)	Result (mg/L)	Result (mg/L)	Result (mg/L)	**Limit (mg/L)**
Volume of acid used (mL)	400	400	400	400	400	400	
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
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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.	3-A	3-B	3-C	3-D	3-E	3-F	
Test Item	Result (mg/L)	Result (mg/L)	Result (mg/L)	Result (mg/L)	Result (mg/L)	Result (mg/L)	**Limit (mg/L)**
Volume of acid used (mL)	400	400	400	400	400	400	
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
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DETAILED RESULTS:

Client-Performance Requirement-Thermal Shock

Test	Test Method	Observation	Conclusion
Thermal Shock	Product shall not crack or shatter after being subjected to extreme temperature change: Ceramic mugs & dinnerware: 212°F to 68°F	Cracking, broken wasn't happened when test from high temperature to low temperature test conditions.	PASS

19 CFR 134.11-Country of Origin-Labeling Review

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

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SPECIMEN DESCRIPTION:

Specimen No.	Specimen Description	Location
1	Grey/white printed beige ceramic	Interior (SM-6355GY)
2	Black/grey printed beige ceramic	Interior (SM-6355BK)
3	Navy/white printed beige ceramic	Interior (SM-6355WH)
4	Multi-color printed beige ceramic	Main body (SM-6355GY)
5	Multi-color printed beige ceramic	Main body (SM-6355BK)
6	Multi-color printed beige ceramic	Main body (SM-6355WH)

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SAMPLE PHOTO:

-End Report-

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