TEST REPORT

[redacted]

LAB NO.: (9021)320-0122
DATE IN: NOV. 16, 2021
DATE MODIFIED: /
DATE OUT: NOV. 23, 2021
NO. OF WORKING DAYS: 6

OVERALL RATING

SATISFACTORY	**X**
UNSATISFACTORY	
DATA	

Vendor:	[redacted]	**Agent:**	/
Raw Material Supplier:	/	**Factory/Manufacturer:**	/
P.O. No.:	/	**Style No.:**	9987-00WBL, 9987-00BKW, 9987-00BKRE, 9987-00BKBL
Sample Description:	CERAMIC MUG	**SKU#:**	9987-00WBL, 9987-00BKW, 9987-00BKRE, 9987-00BKBL
Color:	MULTIROW	**Country of Origin:**	CHINA
Buyer Name:	BULLET	**Submitted Size:**	/
Submitted Amount:	/	**End Use:**	/
Country of Distribution	USA	**Others:**	/

Product Category:	/
Test Requested:	SEE BELOW
Previous Report No.:	/

TEST PROPERTY	PASS	FAIL	DATA	COMMENTS
Extractable Lead and Cadmium Content in Interior of Ceramicware - United States Food and Drug Administration (FDA) Compliance Policy Guides (CPG), Sections 545.400 (CPG 7117.06) and 545.450 (CPG 7117.07)	**X**			
Extractable Lead and Cadmium in Ceramicware- California Proposition 65	**X**			
Extractable Lead and Cadmium in Ceramic and Glass - CCPSA Glazed Ceramics and Glassware Regulations -SOR/2016-175 Sec.2	**X**			
Extractable Lead and Cadmium Content from External Decoration in Lip and Rim Area - California Proposition 65	**X**			
Extractable Lead and Cadmium Content from External Decoration in Lip and Rim Area - Society of Glass and Ceramic Decorators (SGCD)	**X**			
Extractable Lead and Cadmium in Lip and Rim - Glazed Ceramic and Glassware Regulation - SOR/2016-175 Sec.3	**X**			
Total Lead Content in Substrate - United States Consumer Product Safety Improvement Act (CPSIA) Section 101(a)(2)	**X**			

Remark:

The client specifies the test method and requirement.

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TEST RESULT

Test Item(s)	Item / Component Description(s)	Location(s)	Style(s)
I001	Ceramicware	-	A
I002	Ceramicware	-	B
I003	Ceramicware	-	C
I004	Ceramicware	-	D

1.Extractable Lead and Cadmium Content in Interior of Glassware - United States Food and Drug Administration (FDA) Compliance Policy Guides (CPG), Sections 545.400 (CPG 7117.06) and 545.450 (CPG 7117.07)

Test Method : AOAC 973.32 (2007) / ASTM C738-94 (R2020)

Extractable Element(s)		Pb	Cd
Maximum Allowable Limit (mg/L) (Average of 6 trials)	**Type I – Flatware**	**3.0**	**0.5**
	Type II - Small hollowware	**2.0**	**0.5**
	Type III - Large hollowware	**1.0**	**0.25**
	Type IV - Cup and mug	**0.5**	**0.5***
	Type V - Small pitcher	**0.5**	**0.5***
	Type VI - Large pitcher	**0.5**	**0.25^**

-	Result			
Test Item(s)	I001			
Type	IV			
Parameter	Internal Depth	Leaching Volume	Lead (Pb)	Cadmium (Cd)
Unit	Mm	mL	mg/L	mg/L
Test Sample(s) / Trial(s)	-	-	-	-
Trial 1	95	450	<0.05	<0.01
Trial 2	95	450	<0.05	<0.01
Trial 3	95	450	<0.05	<0.01
Trial 4	95	450	<0.05	<0.01
Trial 5	95	450	<0.05	<0.01
Trial 6	95	450	<0.05	<0.01
Average	-	-	<0.05	<0.01
Conclusion	PASS			

-	Result			
Test Item(s)	I002			
Type	IV			
Parameter	Internal Depth	Leaching Volume	Lead (Pb)	Cadmium (Cd)
Unit	Mm	mL	mg/L	mg/L
Test Sample(s) / Trial(s)	-	-	-	-
Trial 1	95	450	<0.05	<0.01
Trial 2	95	450	<0.05	<0.01
Trial 3	95	450	<0.05	<0.01
Trial 4	95	450	<0.05	<0.01

Trial 5	95	450	<0.05	<0.01
Trial 6	95	450	<0.05	<0.01
Average	-	-	<0.05	<0.01
Conclusion	PASS			

-	**Result**			
Test Item(s)	I003			
Type	IV			
Parameter	Internal Depth	Leaching Volume	Lead (Pb)	Cadmium (Cd)
Unit	Mm	mL	mg/L	mg/L
Test Sample(s) / Trial(s)	-	-	-	-
Trial 1	95	450	<0.05	<0.01
Trial 2	95	450	<0.05	<0.01
Trial 3	95	450	<0.05	<0.01
Trial 4	95	450	<0.05	<0.01
Trial 5	95	450	<0.05	<0.01
Trial 6	95	450	<0.05	<0.01
Average	-	-	<0.05	<0.01
Conclusion	PASS			

Note/Key : ND = Not detected "<" = less than mm = millimeter(s)
mg/L = milligram(s) per liter = ppm = part(s) per million mL = milliliter(s)
Detection Limit (mg/L) : Pb 0.050; Cd 0.010

Remark:
- Product(s) with extractable lead content and (or) extractable cadmium content exceeding the corresponding maximum allowable limit has (have) to comply with the warning utilization requirement.

2. Extractable Lead and Cadmium in Ceramicware- California Proposition 65

Test Method : AOAC 973.32 (2007) / ASTM C738-94 (R2020)

Extractable Element(s)		**Pb**	**Cd**
Maximum Allowable Limit (mg/L)	**Type I – Flatware**	**0.226**	**1.853**
	Type II - Small hollowware	**0.100**	**0.189**
(Any 1 of 12 trials)	**Type III - Large hollowware**	**0.100**	**0.049**

-	**Result**			
Test Item(s)	I001			
Type	II			
Parameter	Internal Depth	Leaching Volume	Lead (Pb)	Cadmium (Cd)
Unit	Mm	mL	mg/L	mg/L
Test Sample(s) / Trial(s)	-	-	-	-
Trial 1	95	450	ND	ND
Trial 2	95	450	ND	ND
Trial 3	95	450	ND	ND
Trial 4	95	450	ND	ND
Trial 5	95	450	ND	ND
Trial 6	95	450	ND	ND
Trial 7	95	450	ND	ND
Trial 8	95	450	ND	ND

Trial 9	95	450	ND	ND
Trial 10	95	450	ND	ND
Trial 11	95	450	ND	ND
Trial 12	95	450	ND	ND
Conclusion	PASS			

-	**Result**			
Test Item(s)	I002			
Type	II			
Parameter	Internal Depth	Leaching Volume	Lead (Pb)	Cadmium (Cd)
Unit	Mm	mL	mg/L	mg/L
Test Sample(s) / Trial(s)	-	-	-	-
Trial 1	95	450	ND	ND
Trial 2	95	450	ND	ND
Trial 3	95	450	ND	ND
Trial 4	95	450	ND	ND
Trial 5	95	450	ND	ND
Trial 6	95	450	ND	ND
Trial 7	95	450	ND	ND
Trial 8	95	450	ND	ND
Trial 9	95	450	ND	ND
Trial 10	95	450	ND	ND
Trial 11	95	450	ND	ND
Trial 12	95	450	ND	ND
Conclusion	PASS			

-	**Result**			
Test Item(s)	I003			
Type	II			
Parameter	Internal Depth	Leaching Volume	Lead (Pb)	Cadmium (Cd)
Unit	Mm	mL	mg/L	mg/L
Test Sample(s) / Trial(s)	-	-	-	-
Trial 1	95	450	ND	ND
Trial 2	95	450	ND	ND
Trial 3	95	450	ND	ND
Trial 4	95	450	ND	ND
Trial 5	95	450	ND	ND
Trial 6	95	450	ND	ND
Trial 7	95	450	ND	ND
Trial 8	95	450	ND	ND
Trial 9	95	450	ND	ND
Trial 10	95	450	ND	ND
Trial 11	95	450	ND	ND
Trial 12	95	450	ND	ND
Conclusion	PASS			

Note / Key :

ND = Not detected "<" = less than mm = millimeter(s)
mg/L = milligram(s) per liter = ppm = part(s) per million mL = milliliter(s)
Detection Limit (mg/L) : Pb 0.05; Cd 0.01

Remark :

- Ceramicware food and beverage use products, such as china, porcelain and glazed earthenware tableware, are applicable to be tested with the exclusion of salt and pepper shakers and pepper mills.
- For potential sale of less than 2000 pieces of products per year, the average result should be obtained from 6 trials. While for potential sale of greater than or equal to 2000 pieces of products per year, the average result should be obtained from 12 trials.

- Product(s) with extractable lead and (or) extractable cadmium content exceeding the corresponding maximum allowable limit has (have) to comply with the warning utilization requirement.
- Apart from these extractable lead and cadmium requirements of California Proposition 65 or California Health and Safety Code, Section 25249.5, product(s) has (have) to comply with the extractable lead and cadmium requirements of United States Food and Drug Administration (FDA) Compliance Policy Guides (CPG), Sections 545.400 (CPG 7117.06) and 545.450 (CPG 7117.07).

3. Extractable Lead and Cadmium in Ceramic and Glass - CCPSA Glazed Ceramics and Glassware Regulations -SOR/2016-175 Sec.2

Test Method : ISO 6486-1:1999

Extractable Element(s)		**Pb**	**Cd**
Maximum Allowable Limit (mg/L) (Average of 6 trials)	**Type I – Flatware**	**3.0**	**0.5**
	Type II - Small hollowware	**2.0**	**0.5**
	Type III - Large hollowware	**1.0**	**0.25**
	Type IV - Cup and mug	**0.5**	**0.5**
	Type V - Pitcher	**0.5**	**0.25**

-	**Result**			
Test Item(s)	I001			
Type	IV			
Parameter	Internal Depth	Leaching Volume	Lead (Pb)	Cadmium (Cd)
Unit	Mm	mL	mg/L	mg/L
Test Sample(s) / Trial(s)	-	-	-	-
Trial 1	95	450	<0.05	<0.01
Trial 2	95	450	<0.05	<0.01
Trial 3	95	450	<0.05	<0.01
Trial 4	95	450	<0.05	<0.01
Trial 5	95	450	<0.05	<0.01
Trial 6	95	450	<0.05	<0.01
Average	-	-	<0.05	<0.01
Conclusion	PASS			

-	**Result**			
Test Item(s)	I002			
Type	IV			
Parameter	Internal Depth	Leaching Volume	Lead (Pb)	Cadmium (Cd)
Unit	Mm	mL	mg/L	mg/L
Test Sample(s) / Trial(s)	-	-	-	-
Trial 1	95	450	<0.05	<0.01
Trial 2	95	450	<0.05	<0.01
Trial 3	95	450	<0.05	<0.01
Trial 4	95	450	<0.05	<0.01
Trial 5	95	450	<0.05	<0.01
Trial 6	95	450	<0.05	<0.01
Average	-	-	<0.05	<0.01
Conclusion	PASS			

-	Result			
Test Item(s)	I003			
Type	IV			
Parameter	Internal Depth	Leaching Volume	Lead (Pb)	Cadmium (Cd)
Unit	Mm	mL	mg/L	mg/L
Test Sample(s) / Trial(s)	-	-	-	-
Trial 1	95	450	<0.05	<0.01
Trial 2	95	450	<0.05	<0.01
Trial 3	95	450	<0.05	<0.01
Trial 4	95	450	<0.05	<0.01
Trial 5	95	450	<0.05	<0.01
Trial 6	95	450	<0.05	<0.01
Average	-	-	<0.05	<0.01
Conclusion	PASS			

Note/Key : ND = Not detected "<" = less than mm = millimeter(s)

mg/L = milligram(s) per liter = ppm = part(s) per million mL = milliliter(s)

Detection Limit (mg/L) : Pb 0.050; Cd 0.010

Remark:

- Product(s) with extractable lead content and (or) extractable cadmium content exceeding the corresponding maximum allowable limit has (have) to comply with the warning utilization requirement.

4. Extractable Lead and Cadmium Content from External Decoration in Lip and Rim Area - California Proposition 65

Test Method : ASTM C927-80(R2019e1)

Extractable Element(s)	**Pb**	**Cd**
Maximum Allowable Limit (mg/L) (Any 1 of 6 trials)	**0.5**	**4.0**

-	Result			
Test Item(s)	I001			
Type	-			
Parameter	Internal Volume	Leaching Volume	Lead (Pb)	Cadmium (Cd)
Unit	mL	mL	mg/L	mg/L
Test Sample(s) / Trial(s)	-	-	-	-
Trial 1	450	175	<0.05	<0.01
Trial 2	450	175	<0.05	<0.01
Trial 3	450	175	<0.05	<0.01
Trial 4	450	175	<0.05	<0.01
Trial 5	450	175	<0.05	<0.01
Trial 6	450	175	<0.05	<0.01
Conclusion	PASS			

-	Result			
Test Item(s)	I004			
Type	-			
Parameter	Internal Volume	Leaching Volume	Lead (Pb)	Cadmium (Cd)
Unit	mL	mL	mg/L	mg/L
Test Sample(s) / Trial(s)	-	-	-	-
Trial 1	450	175	<0.05	<0.01
Trial 2	450	175	<0.05	<0.01
Trial 3	450	175	<0.05	<0.01
Trial 4	450	175	<0.05	<0.01
Trial 5	450	175	<0.05	<0.01
Trial 6	450	175	<0.05	<0.01
Conclusion	PASS			

Note / Key :

ND = Not detected "<" = less than mL = milliliter(s)
mg/L = milligram(s) per liter leached relative to internal volume mg/L = ppm
ppm = part(s) per million leached relative to internal volume
Detection Limit (mg/L) : Pb : 0.05; Cd : 0.01

Remark :

- Product(s) with extractable lead content and (or) extractable cadmium content exceeding the corresponding maximum allowable limit has (have) to comply with the warning utilization requirement.

5. Extractable Lead and Cadmium Content from External Decoration in Lip and Rim Area - Society of Glass and Ceramic Decorators (SGCD)

Test Method : ASTM C927-80(R2019e1)

Extractable Element(s)	**Pb**	**Cd**
Maximum Allowable Limit (mg/L) (Any 1 of 6 trials)	**4.0**	**0.4**

-	Result			
Test Item(s)	I001			
Type	-			
Parameter	Internal Volume	Leaching Volume	Lead (Pb)	Cadmium (Cd)
Unit	mL	mL	mg/L	mg/L
Test Sample(s) / Trial(s)	-	-	-	-
Trial 1	450	175	<0.05	<0.01
Trial 2	450	175	<0.05	<0.01
Trial 3	450	175	<0.05	<0.01
Trial 4	450	175	<0.05	<0.01
Trial 5	450	175	<0.05	<0.01
Trial 6	450	175	<0.05	<0.01
Conclusion	PASS			

-	Result			
Test Item(s)	I004			
Type	-			
Parameter	Internal Volume	Leaching Volume	Lead (Pb)	Cadmium (Cd)
Unit	mL	mL	mg/L	mg/L
Test Sample(s) / Trial(s)	-	-	-	-
Trial 1	450	175	<0.05	<0.01
Trial 2	450	175	<0.05	<0.01
Trial 3	450	175	<0.05	<0.01
Trial 4	450	175	<0.05	<0.01
Trial 5	450	175	<0.05	<0.01
Trial 6	450	175	<0.05	<0.01
Conclusion	PASS			

Note / Key :

ND = Not detected "<" = less than mL = milliliter(s)
mg/L = milligram(s) per liter leached relative to internal volume mg/L = ppm
ppm = part(s) per million leached relative to internal volume
Detection Limit (mg/L) : Pb : 0.05; Cd : 0.01

Remark :

- Product(s) with extractable lead content and (or) extractable cadmium content exceeding the corresponding maximum allowable limit has (have) to comply with the warning utilization requirement.

6. Extractable Lead and Cadmium in Lip and Rim - Glazed Ceramic and Glassware Regulation - SOR/2016-175 Sec.3

Test Method : ASTM C927-80(R2019e1)

Extractable Element(s)	**Pb**	**Cd**
Maximum Allowable Limit (mg/L) (Any 1 of 6 trials)	**4.0**	**0.4**

-	Result			
Test Item(s)	I001			
Type	-			
Parameter	Internal Volume	Leaching Volume	Lead (Pb)	Cadmium (Cd)
Unit	mL	mL	mg/L	mg/L
Test Sample(s) / Trial(s)	-	-	-	-
Trial 1	450	175	<0.05	<0.01
Trial 2	450	175	<0.05	<0.01
Trial 3	450	175	<0.05	<0.01
Trial 4	450	175	<0.05	<0.01
Trial 5	450	175	<0.05	<0.01
Trial 6	450	175	<0.05	<0.01
Conclusion	PASS			

-	Result			
Test Item(s)	I004			
Type	-			
Parameter	Internal Volume	Leaching Volume	Lead (Pb)	Cadmium (Cd)
Unit	mL	mL	mg/L	mg/L
Test Sample(s) / Trial(s)	-	-	-	-
Trial 1	450	175	<0.05	<0.01
Trial 2	450	175	<0.05	<0.01
Trial 3	450	175	<0.05	<0.01
Trial 4	450	175	<0.05	<0.01
Trial 5	450	175	<0.05	<0.01
Trial 6	450	175	<0.05	<0.01
Conclusion	PASS			

Note / Key :

ND = Not detected "<" = less than mL = milliliter(s)
mg/L = milligram(s) per liter leached relative to internal volume mg/L = ppm
ppm = part(s) per million leached relative to internal volume
Detection Limit (mg/L) : Pb : 0.05; Cd : 0.01

Remark :

- Product(s) with extractable lead content and (or) extractable cadmium content exceeding the corresponding maximum allowable limit has (have) to comply with the warning utilization requirement.

7. Total Lead Content in Substrate - United States Consumer Product Safety Improvement Act (CPSIA) Section 101(a)(2)

Test Method **:** CPSC-CH-E1002-08.3

Maximum Allowable Limit :	**100 mg/kg**

-	**Unit**	**Result**
Test Item(s)	-	I003
Parameter	-	-
Total Lead (Pb)	mg/kg	56.3
Conclusion	-	PASS

Note / Key :

ND = Not detected "<" = Less than
mg/kg = milligram(s) per kilogram = ppm = part(s) per million
10000 mg/kg = 1 % % = percent
Detection Limit (mg/kg) : 10

Original Sample

END