



Test Report

Report No. : WTH19H01003965C-3

Date: Feb. 15, 2019

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Applicant: BAREBONES SYSTEMS, LLC.

Address: 1215 East Wilmington Avenue - Ste. 140 Salt Lake City, UT 84106

Report on the submitted sample(s) said to be:

Sample Name: Enamel Mug

Sample Description: 1.Copper metal binding gray enamel mug
2.Copper metal binding

Sample Material: Enamel glaze, Stainless steel binding ring

Sample No.: WTH19H01003965C01

Sample Received Date: Feb. 11, 2019

Testing Period: Feb. 11, 2019 - Feb. 15, 2019

Test Method: Please refer to the following page(s).

Test Result: Please refer to the following page(s).

Test Requested:	Conclusion
1.As specified by client, to determine the Extractable Lead and Cadmium content in the submitted sample with reference to the demand of 84/500/EEC and 2004/1935/EC .	PASS
2.As specified by client, to determine the Migration of Heavy Metals Contents for Metal in Contact with Foodstuffs of the submitted sample with reference to Regulation (EC) No 1935/2004&Technical Guide on Metals and Alloys used in food contact materials and articles.	PASS

Signed for and on behalf of HCT

Daniel Li

Daniel Li



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Test Result(s):

1.Extractable Lead and Cadmium content

Test Method: In accordance with 84/500/EEC

Test Condition: Acetic acid 4%, 24hours/22°C

Unit: mg/L

Tested Items	MDL	Results					Limit
		1					
		A	B	C	D	Ave.	
Extractable Lead	0.1	N.D.	N.D.	N.D.	N.D.	N.D.	4.0
Extractable Cadmium	0.01	N.D.	N.D.	N.D.	N.D.	N.D.	0.3

Note:

mg/L=milligrams per litre

MDL=method detection limit

N.D.=not detected (less than method detection limit)

Volume of 4% Acetic acid used 500 mL.

The limit from 84/500/EEC.

84/500/EEC

Category	Description	Extractable Lead	Extractable Cadmium
1	Articles which cannot be filled and articles which can be filled, the internal depth of which, measured from the lowest point to the horizontal plane passing through the upper rim, does not exceed 25mm.	0.8mg/dm ²	0.07mg/dm ²
2	All other articles which can be filled.	4.0mg/L	0.3mg/L
3	Cooking ware; packaging and storage vessels having a capacity of more than three litres.	1.5mg/L	0.1mg/L



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2.Migration of Heavy Metals Content

Test as specified in EDQM Technical Guide PA/PH/EMB(13)9

Sample was tested with artificial tap water at 70°C for 2 hour and followed by ICP-OES and ICP-MS analysis

Test Item(s)	Extractable 23 Heavy Metals		
Parameter	MDL (mg/kg)	Results of (1 st +2 nd) Migration (mg/kg)	Limit (mg/kg)
		2	
Tin (Sn)	2.0	N.D	700
Copper (Cu)	1.0	N.D	28
Iron (Fe)	2.0	N.D	280
Manganese (Mn)	0.2	N.D	12.6
Zinc (Zn)	2.0	N.D	35
Aluminum (Al)	0.2	0.5	35
Nickel (Ni)	0.1	N.D	0.98
Chromium (Cr)	0.1	N.D	1.75
Barium (Ba)	0.2	N.D	8.4
Lithium (Li)	0.02	N.D	0.336
Titanium (Ti)	1.0	N.D	Not Requested
Magnesium (Mg)	1.0	N.D	Not Requested
Beryllium (Be)	0.004	N.D	0.07
Vanadium (V)	0.004	N.D	0.07
Cobalt (Co)	0.01	N.D	0.14
Arsenic (As)	0.002	N.D	0.014
Molybdenum (Mo)	0.02	N.D	0.84
Silver (Ag)	0.02	N.D	0.56
Cadmium (Cd)	0.002	N.D	0.035
Antimony (Sb)	0.020	N.D	0.28
Mercury (Hg)	0.0010	N.D	0.021
Thallium (Tl)	0.0002	N.D	0.0007
Lead (Pb)	0.02	N.D	0.070



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Test Item(s)	Extractable 23 Heavy Metals		
Parameter	MDL (mg/kg)	Results of 3 rd Migration (mg/kg)	Limit (mg/kg)
		2	
Tin (Sn)	1.0	N.D	100
Copper (Cu)	0.5	N.D	4
Iron (Fe)	1.0	N.D	40
Manganese (Mn)	0.1	N.D	1.8
Zinc (Zn)	1.0	N.D	5
Aluminum (Al)	0.1	N.D	5
Nickel (Ni)	0.05	N.D	0.14
Chromium (Cr)	0.05	N.D	0.250
Barium (Ba)	0.1	N.D	1.2
Lithium (Li)	0.01	N.D	0.048
Titanium (Ti)	0.5	N.D	Not Requested
Magnesium (Mg)	0.5	N.D	Not Requested
Beryllium (Be)	0.002	N.D	0.01
Vanadium (V)	0.002	N.D	0.01
Cobalt (Co)	0.005	N.D	0.02
Arsenic (As)	0.001	N.D	0.002
Molybdenum (Mo)	0.01	N.D	0.12
Silver (Ag)	0.01	N.D	0.08
Cadmium (Cd)	0.001	N.D	0.005
Antimony (Sb)	0.010	N.D	0.04
Mercury (Hg)	0.0005	N.D	0.003
Thallium (Tl)	0.0001	N.D	0.0001
Lead (Pb)	0.01	N.D	0.010

Note:

mg/kg = ppm=parts per million

MDL=method detection limit

N.D.=not detected (less than method detection limit)



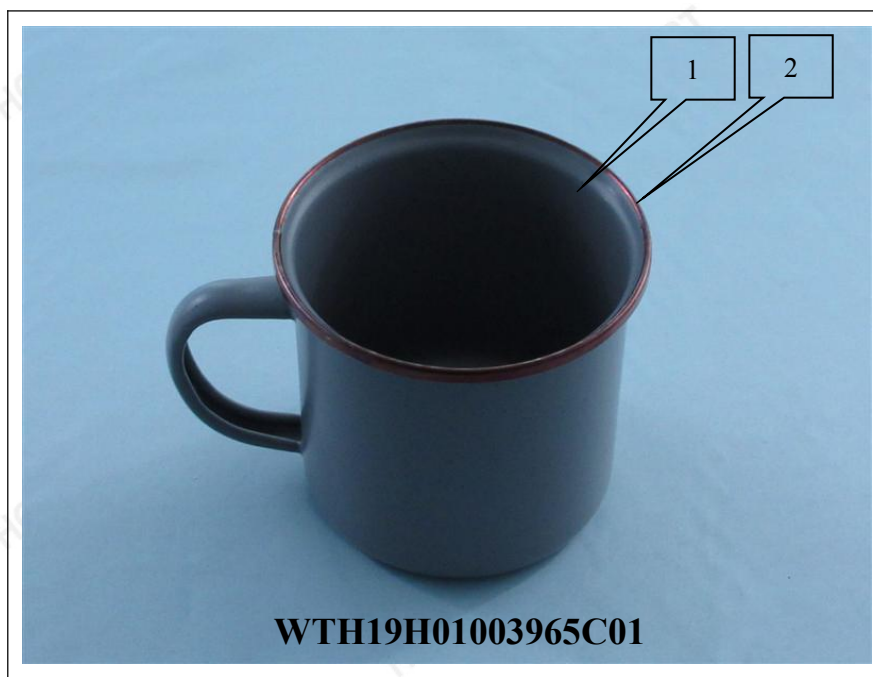
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The photo of the sample



End

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