



ميديل ايست لخدمات الفحص Middle East Testing Services



TEST REPORT

Report No.: MR-040923-002/R1

Client / Establishment : M/s.Born Free FZ LLC, Office 1309,
Fujairah Creative Tower, Fujairah, UAE; PO Box 4422

Sample ID : MS-040923-002
Sample Receiving Date : 04/09/2023
Reporting Date : 11/10/2023
Date of Analysis : 04/09/2023-14/09/2023
Tested by : AD
Issue No. : 02 (Re-Issue Date: 11/10/2023)

Sample Information:

Sample Description : Ceramic Tableware - Cups

Brief Evaluation of the Results

	Test	Compliance#
MS-040923-002	Migration Analysis	Pass

The corresponding test results are furnished in following page

Prepared by

Verified by

Chemist
Employee Code: METS AJ EC 110

Assistant Laboratory Manager
Employee Code: METS AJ EC 103



Report No.: MR-040923-002/R1

DETAILED TEST:

Scope: To determine the overall migration and specific migration of heavy metals from articles intended to come in contact with food stuffs.

Regulation (EC) No 1935/2004, EU 2020/1245 and Council of Europe Resolution CM Res (2013)9 on food contact materials and Articles- Specific migration of heavy metals

Test Results

1. Overall migration analysis

Test Method: With reference to EU 2020/1245, BS EN 1186-1 and METS IP-31 for selection of test condition and methods

Simulants*	Temperature and duration	Method	Unit	Limit	Result			
					1	2	3	Average
Acetic Acid 3%	40°C/2hrs	METS IP-31 BSEN1186-1:2002	mg/kg	60	0.7	0.7	0.6	0.7
10% Ethanol	40°C/2hrs		mg/kg	60	0.8	0.8	0.7	0.8
Distilled water	25°C/10 days		mg/kg	60	0.4	0.4	0.3	0.4

* Intended food contact conditions.

The overall migration limit of constituents as per EU 2020/1245 specification is 60 mg/kg.

Note: mg/kg= milligram/Kilogram.

2. Color Migration*

Temperature : 25°C

Duration : 10 Days

Simulant	Method	Result
Distilled water	METS IP 30	No color release observed



Report No.: MR-040923-002/R1

2. Specific Migration of Heavy Metals in distilled water

Temperature : 25°C
Duration : 10 days

Test Method: With reference to EU 2020/1245 and EU (No) 2017/752 Migration Limit (mg/kg) for selection of test condition and EN 13130-1 for test preparation, analysis performed using ICP-AES

Test	Method	Unit	Result	Max. Permissible limit	Comment
Aluminium (Al)	METS-IP-19	mg/kg	<0.01	1	PASS
Barium (Ba)		mg/kg	<0.01	1	PASS
Cadmium (Cd)		mg/kg	<0.01	Shall not be detect	PASS
Chromium (Cr)		mg/kg	<0.01	Shall not be detect	PASS
Cobalt (Co)		mg/kg	<0.01	0.05	PASS
Copper (Cu)		mg/kg	<0.01	5	PASS
Iron (Fe)		mg/kg	<0.01	48	PASS
Lead (Pb)		mg/kg	<0.01	Shall not be detect	PASS
Lithium (Li)		mg/kg	<0.01	0.6	PASS
Manganese (Mn)		mg/kg	<0.01	0.6	PASS
Molybdenum (Mo)		mg/kg	<0.01	-	PASS#
Zinc (Zn)		mg/kg	<0.01	5	PASS
Silver (Ag)		mg/kg	<0.01	-	PASS#
Nickel (Ni)		mg/kg	<0.01	0.02	PASS
Mercury(Hg)		mg/kg	<0.01	Shall not be detect	PASS
Arsenic(As)		mg/kg	<0.01	Shall not be detect	PASS

Note: mg/kg= milligram/kilogram

#The parameter is considered as PASS since the result is below detection limit and no specification limit is available

Remarks:

The tested specimen was found to have satisfactory quality since specific migration and overall migration values are within the recommended limit. The specimen found to meet food contacting requirement at the temperature studied.

Test Method Deviation : None
Sampling Method : NA
Test Conducted by : AD



Report No.: MR-040923-002/R1

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Image of the test specimen.

Remarks: Report was revised to modify client address as per client request

Note: Traceability details are not provided by the client

"Where statements of conformity are made in this report, the following decision rules are applied;

PASS: Result \pm expanded uncertainty within the limits/specifications

FAIL: Result \pm expanded uncertainty exceeds the limits/specifications

INTERMEDIATE: Result \pm expanded uncertainty overlaps the limits/specifications

The above test results are only applicable to the sample (s) referred above. This report shall not be reproduced except in full, without the written approval of METS laboratory.

For further clarification of reports, please contact qc@metslab.com

-End of Report-

