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Test Report

Specific migration of metals

According to commission Regulation (EU) No. 10/2011 (Annex I & II) as amended till (EU) 2020/1245 and Israeli Standard 5113

IPRC Job No.	R/3634
Client:	**Tavig Israel Ltd**
Contact person:	Edna Chen.
Client's address:	43 Yitzchak Ben Zvi St, B.O. box 4556 Rishon-Lezion 75633
Item tested:	PP white square bucket 5 and 3 liter ,Sw75av.
Item designation:	bucket for All types of food (aqueous, acidic and fatty foodstuff) .
Use:	Room temperature filled and stored and/or refrigerated and/or frozen conditions, including "Hot-fill", for disposable use only
Arrival in lab:	24-Nov-2022
Testing period:	28-Nov-2022 - 28-Dec-2022
Sample drawn by:	Client
Objectives of examination:	To test Specific Migration of metals according to commission Regulation (EU) No. 10/2011 (Annex I & II) of 14th Jan 2011 on Plastic Materials and Articles Intended to come in contact with food as amended till (EU) 2020/1245 and Israeli Standard 5113

Test Conducted:

1. Specific migration of metals: Al, Sb, As, Ba, Co, Cu, Fe, Li, Mn, Ni, Zn, Pb, Hg, Cr, Cd, Eu, Gd, Tb, Mn, Mg, K, Na.
2. Specific migration of metals which are covered by overall migration results (R/3634 report): Ammonium and Calcium (Ca).

Table 1: Summary of test results

Item tested	Test Conducted	Result
PP white square bucket 5 and 3 liter ,Sw75av.	Specific Migration – Metals, EU 10/2011	**PASS**

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Test Specifications:

Test Method: Sample preparation is performed according to EN 13130, Part 1
Specific migration of metals by ICP
Mercury test based on EPA 30B

Test conditions: 3% Acetic acid (v/v)for 60°C/10 days, for single use only

Results:

Table 2: Results- PP white square bucket 5 and 3 liter ,Sw75av..

Element	Unit	Result[1]	Limit[2]
Aluminium Al	mg/kg	0.75	max. 1
Barium Ba	mg/kg	<0.01	max. 1
Cobalt Co	mg/kg	<0.01	max. 0.05
Copper Cu	mg/kg	<0.05	max. 5
Iron Fe	mg/kg	0.05	max. 48
Lithium Li	mg/kg	<0.05	max. 0.6
Manganese Mn	mg/kg	<0.01	max. 0.6
Nickel Ni	mg/kg	<0.01	max. 0.02
Antimony Sb	mg/kg	<0.04	max. 0.04
Zinc Zn	mg/kg	0.06	max. 5
Europium Eu	mg/kg	<0.02	max. 0.05
Gadolinium Gd	mg/kg	<0.02	max. 0.05
Lanthanum La	mg/kg	<0.02	max. 0.05
Terbium Tb	mg/kg	<0.02	max. 0.05
Arsenic As	mg/kg	<0.01	N.D (0.01)
Cadmium Cd	mg/kg	N.D	N.D (0.002)
Chromium Cr	mg/kg	<0.01	N.D (0.01)
Lead Pb	mg/kg	N.D	N.D (0.01)
Mercury Hg	mg/kg	<0.01	N.D (0.01)
Magnesium Mg	mg/kg	1.22	-
Potassium K	mg/kg	0.71	-
Sodium Na	mg/kg	4.25	-
Calcium Ca[3]	mg/kg	N/A	-
Ammonium[3]	mg/kg	N/A	-

Notes and Abbreviations:

[1] Symbol "<" means less than LOD (limit of detection)/LOQ of the analytical method. Expressed as mg of element per kg of simulant

[2] Limit values according to Commission Regulation (EU) 10/2011 as amended

N.D.= not detectable; for limit of detection see the value in brackets

[3] Specific migration of metals which are covered by overall migration results: Ammonium and Calcium (Ca). Max. limit: 60 mg/kg food or food simulant. Find report no. R/3634 for overall migration results.

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Conclusions:

- The submitted samples comply with the requirements of Regulation (EU) No. 10/2011 (Annex II) and its amendments, and Israeli Standard 5113 for the above mentioned metals.
- Specific migration of metals which are covered by overall migration results (R/3634 report): Ammonium and Calcium (Ca).
- The value of Specific migration of the metals: Ammonium and Calcium (Ca) depends of the overall migration results (find report no. R/3634) and therefore the result is PASS (Max. limit: 60 mg/kg food or food simulant).

The submitted sample is shown in the following figure No. 1:



Fig. No. 1: PP white square bucket 5 and 3 liter ,Sw75av, R/3634.

Note: The results reported herein, relate only to the sample tested and do not necessarily represent the lot from which they originate. Unless otherwise stated, the samples have been freely selected, indexed and provided by the client. Without written permission of ISPLRC this test report is not permitted to be duplicated. This test report does not entitle to carry any safety mark on this or similar products. This certificate is valid only with the rest of the test certificates for this product: report no. R/3634.

Tested by: **Approved by:**

Anya Bar
Chemist

Hagit Ichye
Chemist

End of Report