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## Migration Report

14 April 2020

### 1 Sample Information

Sample name	JX260ALU
Sample reception	13/03/2020
Sample no.	392-2020-00124301
Analysis period	17/03/2020 - 25/03/2020

### 2 Brief Evaluation of the Results

Type of analysis	Conclusion	Regulation or protocol
Specific release of metals	Pass	CM/Res(2013)9

Full details based on the testing and direct comparison with limit values are available in the following pages



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### 3 Applied Test Methods

#### 3.1 General Test References

Method	Parameter	Analysis principle	LOD	Um(%)
CM/Res(2013)9 (Practical guide)	Preparation for migration	Exposure to artificial tap water by cell	-	-
EPA 3052mod* <sup>1</sup> + CM/Res(2013)9	Metals	Migration simulant analysed for certain metals by ICP-MS. SR value is calculated according to guideline	LOQ : 0.00005 – 1 mg/kg	30%

#### 3.2 Test Conditions

Simulant	Technique	Area exposed [dm <sup>2</sup> ]	Volume (Simulant) [mL]	Migration Conditions
Artificial tap water	Cell	2	100	1 Hours at 80°C

<sup>1</sup> Eurofins Miljø A/S: DS EN ISO/IEC 17025 DANAK 168

\*: Not accredited

<: Less than

>: Greater than

LOD: Limit of detection

Um(%): The expanded uncertainty Um(%) equals 2 x RSD%. For further information please visit [www.eurofins.dk/uncertainty](http://www.eurofins.dk/uncertainty)

The results are only valid for the tested sample(s).

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LOQ: Limit of quantification

## 4 Results

### 4.1 Specific Release of Metals

Parameter	CAS No.	Food Simulant	Average [mg/kg]	SRL value $\square$ [mg/kg]
<b>Aluminium (Al) *</b>	7429-50-5	0.5% citric acid.	4.3	5
<b>Antimony (Sb) *</b>	7440-36-0	0.5% citric acid	< 0.001	0.04 (Transitional SRL = 0.2) $\square\square$
<b>Arsenic (As) *</b>	7440-38-2	0.5% citric acid	< 0.0008	0.002 (Transitional SRL = 0.01) $\square\square$
<b>Barium (Ba) *</b>	7440-39-3	0.5% citric acid	< 0.001	1.2
<b>Beryllium (Be) *</b>	7440-41-7	0.5% citric acid	< 0.001	0.01 (Transitional SRL = 0.05) $\square\square$
<b>Lead (Pb) *</b>	7439-92-1	0.5% citric acid	< 0.001	0.010 (Transitional SRL = 0.04) $\square\square$
<b>Cadmium (Cd) *</b>	7440-43-9	0.5% citric acid	< 0.0005	0.005 (Transitional SRL = 0.02) $\square\square$
<b>Chromium (Cr) *</b>	7440-47-3	0.5% citric acid	< 0.001	0.250 (Transitional SRL = 1.0) $\square\square$
<b>Cobalt (Co) *</b>	7440-48-4	0.5% citric acid	< 0.0005	0.02 (Transitional SRL = 0.1) $\square\square$
<b>Iron (Fe) *</b>	7439-89-6	0.5% citric acid	< 0.05	40
<b>Copper (Cu) *</b>	7440-50-8	0.5% citric acid	0.0018	4
<b>Mercury (Hg) *</b>	7439-97-6	0.5% citric acid	< 0.0005	0.003 (Transitional SRL = 0.015) $\square\square$
<b>Lithium (Li) *</b>	7439-93-2	0.5% citric acid	< 0.005	0.048
<b>Magnesium (Mg) *</b>	7439-95-4	0.5% citric acid	< 1	-
<b>Manganese (Mn) *</b>	7439-96-5	0.5% citric acid	< 0.01	1.8
<b>Molybdenum (Mo) *</b>	7439-98-7	0.5% citric acid	< 0.001	0.12 (Transitional SRL = 0.6) $\square\square$
<b>Nickel (Ni) *</b>	7440-02-0	0.5% citric acid	0.0038	0.14 (Transitional SRL = 0.7) $\square\square$
<b>Silver (Ag) *</b>	7440-22-4	0.5% citric acid	< 0.01	0.08
<b>Thallium (Tl) *</b>	7440-28-0	0.5% citric acid	< 0.0004	0.0001 (Transitional SRL = 0.0005) $\square\square$
<b>Tin (Sn) *</b>	7440-31-5	0.5% citric acid	0.032	100
<b>Titanium (Ti) *</b>	7440-32-6	0.5% citric acid	< 0.005	-
<b>Vanadium (V) *</b>	7440-62-2	0.5% citric acid	< 0.001	0.01 (Transitional SRL = 0.05) $\square\square$
<b>Zinc (Zn) *</b>	7440-66-6	0.5% citric acid	0.0083	5

$\square$  Limit values from the EU practical guideline on metals and alloys used in food contact materials and articles, CM/Res(2013)9

$\square\square$  Transitional limit values were communicated in a letter from "Department of Biological Standardisation, OMCL Network & HealthCare (DBO) Consumer Health Protection" to the national authorities on November 18, 2013. These limit values will be reconsidered after 3 years.

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## 5 Summary and Evaluation of the Results

The results for specific release of metals **are below** the specific migration limit.

Consequently the product tested **complies** with CM/Res(2013)9 for the above mentioned test conditions.

## 6 Picture of Sample



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