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Date  
August 26, 2015  
your ref.  
Bagestål  
Our ref.  
392-2015-00223801/BJ1

## Test report – Migration

### Sample material

Identification	One sample to be tested for specific release of metals
Sample receipt	July 20, 2015
Number / type	1 sample identified as: Lab no. 392-2015-00223801: Bagestål
Analytical period	July 21 - August 26, 2015

### Applied methods

Method nor.	Parameter	Principle	Limit of detection	$U_m$ (%) <sup>(1)</sup>
CM/Res(2013)9 (Practical guide)	Preparation for specific migration	Exposure to artificial tap water by cell.	-	-
EPA 3052m + CM/Res(2013)9 (Practical guide)	Metals <sup>#</sup>	Migration simulant analysed for cer- tain metals. SR value is calculated according to guideline.	0.0004 – 0.05 mg/l	30%

#### Principle

**Artificial tap water:** The sample was exposed for 2 hours at 100 °C. At the end of the test period, the food simulant was removed from the sample.

**Specific migration:** An aliquot of the food simulant is analysed for the specific compound as listed above.

(1)  $U_m$  (%): The expanded uncertainty  $U_m$  is equal to 2 x RSD%, see also [www.eurofins.dk](http://www.eurofins.dk). Keyword: Uncertainty  
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## Results

The specific release of metals are below the SRL values in CM/Res(2013)9, hence the sample **complies** with the guideline.

Eurofins Product Testing A/S



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MSc. Chemistry

## Analytical results

Table 1: Specific migration.

Unit: mg/kg / Sample id: Specific compound	Bagestål		
	Food simulant	Result (SR)*	SRL value**
Aluminium (Al)	Artificial tap water	< 0.0067	5
Antimony (Sb)	Artificial tap water	< 0.0002	0.04
Chromium (Cr)	Artificial tap water	< 0.0002	0.250
Cobalt (Co)	Artificial tap water	< 0.0001	0.02
Copper (Cu)	Artificial tap water	0.0027	4
Iron (Fe)	Artificial tap water	0.20	40
Magnesium (Mg)	Artificial tap water	< 0.22	-
Manganese (Mn)	Artificial tap water	0.0044	1.8
Molybdenum (Mo)	Artificial tap water	< 0.0002	0.12
Nickel (Ni)	Artificial tap water	0.00087	0.14
Silver (Ag)	Artificial tap water	< 0.0022	0.08
Tin (Sn)	Artificial tap water	< 0.00067	100
Titanium (Ti)	Artificial tap water	< 0.0011	-
Vanadium (V)	Artificial tap water	< 0.0002	0.01
Zinc (Zn)	Artificial tap water	< 0.0011	5
Arsenic (As)	Artificial tap water	< 0.00018	0.002
Barium (Ba)	Artificial tap water	0.00044	1.2
Beryllium (Be)	Artificial tap water	< 0.0002	0.01
Cadmium (Cd)	Artificial tap water	< 0.0001	0.005
Lead (Pb)	Artificial tap water	< 0.0002	0.010
Lithium (Li)	Artificial tap water	< 0.0011	0.048
Mercury (Hg)	Artificial tap water	< 0.000011	0.003
Thallium (Tl)	Artificial tap water	< 0.000089	0.0001

<: means less than

\* The specific release is calculated from the following parameters: Envelope volume: 225 cm<sup>3</sup>, Volume (simulant): 50 ml and the concentration of the metals in the simulant after exposure.

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