

**Test Report No.** 3584621

**Date :** 8-Jun-2017

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**Client : Hachanna Co.,Ltd**  
**344/26 Sathupradit26 , Sathupradit Rd.,**  
**Bangpongpang, Yannawa District Bangkok 10120 Thailand**

The following sample(s) was/were submitted and identified by client as:

Sample Name : Nabe Pot  
 Sample No. : 3689692  
 Sample Condition : As per attached photograph.  
 Quantity Submitted : 30 pcs  
 Sample Receiving Date : 2-Jun-2017  
 Testing Period : 2-Jun-2017 to 8-Jun-2017

Test Method & Results : Please refer to next page(s).

**Test Requested & Result Summary**

Test Requested : Please refer to the result summary (Test parameter(s) was/were selected by client).

Result Summary:

Test Requested	Conclusion
Commission Regulation (EU) No 10/2011 of 14 January 2011 and hence Article 3 of European Regulation No. 1935/2004	--
a) Plastic - Overall migration	
3% Acetic Acid (W/V) Aqueous Solution	PASS
10% Ethanol (V/V) Aqueous Solution	PASS
95% Ethanol	PASS
Isooctane	PASS
b) Plastic - Specific Migration of Heavy Metal	PASS

Remark: 1. Test results in this report are applicable for the item tested and reflects the tested sample as received.  
 2. The migration results are based on the 1st migration.

**Signed for and on behalf of**  
**SGS (Thailand) Limited**



**Rutchuporn Mungsom**  
**Laboratory manager - Toy and Hardgood**

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**TEST RESULTS**
**Testing as per Commission Regulation (EU) No 10/2011**
**a) Plastic - Overall migration**

Method : With reference to Commission Regulation (EU) No 10/2011 of 14 January 2011 Annex III and Annex V for selection of condition and EN 1186-1:2002 for selection of test method;  
 EN 1186-9:2002 aqueous food simulants by article filling method;  
 EN 1186-14:2002 substitute test.

Simulant Used	Test Condition	Result (1) (mg/dm <sup>2</sup> )	Reporting Limit (mg/dm <sup>2</sup> )	Permissible Limit (mg/dm <sup>2</sup> )
3% Acetic Acid (W/V) Aqueous Solution	4 hours at 100 Degree C	ND	3.0	10
10% Ethanol (V/V) Aqueous Solution	4 hours at 100 Degree C	ND	3.0	10
Fatty food substitute	-	-	-	-
95% Ethanol	6 hours at 60 degree C	ND	3.0	10
Isooctane	4 hours at 60 degree C	ND	3.0	10
Comment	--	PASS	--	--

**Sample Description :**

1.Metal with black teflon coating (inside)

**Note :**

1. mg/dm<sup>2</sup> = milligram per square decimeter
2. Degree C = degree Celsius
3. ND = Not Detected
4. Permissible Limit is according to Commission Regulation (EU) No 10/2011 of 14 January 2011 with amendments.

**Remark :**

1. Analytical tolerance of aqueous simulants is 1mg/dm<sup>2</sup> or 6mg/kg
2. Analytical tolerance of fatty food simulants is 3mg/dm<sup>2</sup> or 20mg/kg
3. Test condition & simulant were specified by client.

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**TEST RESULTS**
**European Commission Regulation (EU) No 10/2011**
**b) Plastic - Specific Migration of Heavy Metal**

Method: Sample preparation in 3% acetic acid (w/v) in aqueous solution at 100 Degree C for 4 hours with reference to EN 13130-1:2004 ; followed by analysis using Inductively Coupled Argon Plasma Spectrometry (ICP).

Test Item	Result (1) (mg/kg)	Reporting Limit (mg/kg)	Permissible Limit (mg/kg)
Specific Migration of Aluminium*	0.17	0.1	1**
Specific Migration of Barium	ND	0.25	1
Specific Migration of Cobalt	ND	0.05	0.05
Specific Migration of Copper	ND	0.25	5
Specific Migration of Iron	ND	0.25	48
Specific Migration of Lithium	ND	0.5	0.6
Specific Migration of Manganese	ND	0.25	0.6
Specific Migration of Zinc	ND	0.5	5**
Comment	PASS	--	--

**Sample Description :**

1. Metal with black teflon coating (inside)

**Note :**

1. mg/kg = miligram per kilogram of foodstuff in contact with
2. Degree C = degree Celsius
3. ND = Not Detected
4. Test condition & simulant were specified by client.
5. \*\* = The limits of aluminium and zinc according to Commission Regulation (EU) 2016/1416 shall be applied from 14 September 2018.

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**SAMPLE/ATTACHMENT PICTURE**



\*\*\*\*\* End of Report \*\*\*\*\*

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