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TEST REPORT

Number: BKKH17000388S1

Applicant: TVN **SUPPLY CO., LTD.**
607 SOI PHETKASEAM 69, LAKSONG, BANGKHAE, BANGKOK
ATTN: K.SUTEE

Date: Apr 12, 2017
**This report supersedes
The previous report
Date Jan 30, 2017**

Sample Submitted:

Quantity of sample: 15 bottles
Sample description: Clear plastic bottle (455 ml)
Date sample received: January 11, 2017
Date information submitted: April 11, 2017

Client Information:

Item Name: PET Bottle
Country of Origin: Thailand



Tests conducted:

As requested by the applicant, for details please refer to attached page(s)

Authorized by :
For Intertek Testing Services (Thailand) Ltd.,
Hardlines Laboratory

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Conclusion:

<u>Tested sample</u>	<u>Client's requirement</u>	<u>Result</u>
Submitted sample set	European Commission Regulation No 10/2011 & 2016/1416 and Regulation 1935/2004 on Overall migration Food simulant:	
	- 3% (w/v) acetic acid in aqueous solution	Pass
	- 10% (v/v) ethanol in aqueous solution	Pass
	- Vegetable oil	Pass
	- Distilled water	See test conducted
	European Commission Regulation No. 10/2011 & 2016/1416 Annex II and Regulation No. 1935/2004 on Specific Migration of Heavy Metal Content Food simulant:	
	- 3% (w/v) acetic acid in aqueous solution	Pass



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Test conducted:

1 Overall Migration Test

As per Commission Regulation (EU) No. 10/2011 & 2016/1416 and its amendment and BS EN 1186-3:2002 and BS EN 1186-9:2002.

I. Condition of contact in actual use :
Temperature: 40 °C, time : 10 days

II. Test results:

<u>Food simulant</u>	<u>Result</u> (mg/dm ²)				<u>LOD</u> (mg/dm ²)	<u>LOQ</u> (mg/dm ²)	<u>Limit</u> (mg/dm ²)
	<u>Trial1</u>	<u>Trial2</u>	<u>Trial3</u>	<u>Mean</u>			
(a)3% (w/v) acetic acid in aqueous solution	ND	ND	ND	ND	0.1	1	10
(b)10% (v/v) ethanol in aqueous solution	<1	ND	ND	ND	0.1	1	10
(c)Vegetable oil	<5	<5	<5	<5	-	5	10
(d) Distilled water	ND	ND	ND	ND	0.1	1	10

Remark: mg/dm² = Milligram per square decimetre
< = Less than
ND = Not detected (less than LOD)
LOD = Limited of detection
LOQ = Limited of quantitation

As per client's request, the above condition and food simulant were used for the test.

Tested components: Clear plastic bottle (455 ml)

Testing period: January 11, 2017 to January 30, 2017



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Test conducted:

2 Specific Migration of Heavy Metal Test for Plastic Food Contacting Materials/Articles
As per Commission Regulation (EU) No. 10/2011 & 2016/1416 and its amendment and
BS EN13130-1:2004.

I. Condition of contact in actual use:
Temperature: 40 °C, time : 10 days

II. Test results:

<u>Food simulant</u>	<u>Element</u>	<u>Result</u> (mg/kg)	<u>LOD</u> (mg/kg)	<u>LOQ</u> (mg/kg)	<u>Limit</u> (mg/kg)
3% (w/v) acetic acid in aqueous solution	Barium	ND	0.02	0.06	1 (max)
	Cobalt	ND	0.008	0.01	0.05 (max)
	Copper	ND	0.02	0.06	5 (max)
	Iron	ND	0.02	0.06	48 (max)
	Lithium	ND	0.02	0.06	0.6 (max)
	Manganese	ND	0.02	0.06	0.6 (max)
	Zinc	ND	0.02	0.06	5 (max)
	Aluminium	ND	0.02	0.06	1 (max)

Remark: mg/kg = Milligram per kilogram
ND = Not detected (Less than LOD)
LOD = Limit of detection
LOQ = Limit of quantitation

As per client's request, the above condition and food simulant were used for the test.

Tested components: Clear plastic bottle (455 ml)

Testing period: January 11, 2017 to January 30, 2017

***** END *****
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