

TEST REPORT

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The results relate only to the item tested.

Number: BKKH21005884

Applicant: APS GLASS & BAR SUPPLY GMBH
OBENHAUPTSTRASSE 1
22335 HAMBURG
GERMANY

Issued Date: May 24, 2021

Sample Submitted:

Quantity of sample:	9 pieces
Sample description:	Clear plastic bottle
Date sample received:	May 12, 2021

Client Information:

Sample Name:	Squeeze Bottle Body
Ref.:	SDP-08CL
Country of Origin:	Thailand



Tests conducted:

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

For and on behalf of :
Intertek Testing Services (Thailand) Ltd.,
Hardlines Laboratory



Ladtaka Wongwiboonporn
Operation Manager
Hardlines Department

TEST REPORT

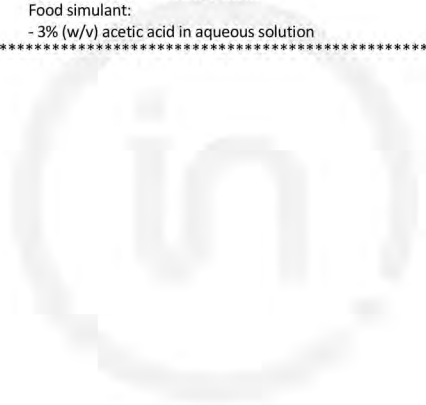
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Conclusion:

<u>Tested sample</u>	<u>Client's requirement</u>	<u>Result</u>
Submitted sample set	European Commission Regulation No 10/2011 and Annex II and (EU) No 2020/1245 and Regulation 1935/2004 on Overall migration	
	Food simulant:	
	- 10% (v/v) ethanol in aqueous solution	Pass
	- 3% (w/v) acetic acid in aqueous solution	Pass
	- 50% (v/v) ethanol in aqueous solution	Pass
	- Substitute D2	Pass
	European Commission Regulation No. 10/2011 Annex II and (EU) No 2020/1245 and Regulation No. 1935/2004 on Specific Migration of Heavy Metal	
	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 and its amendment and EN 1186-1:2002, EN 1186-9:2002, and EN 1186-14:2002.

I. Condition of contact in actual use:
Temperature: 70 °C, time : 2 hours

II. Test condition:

Simulant	Temperature (°C)	Time (hours)
(A), (B), (D1)	70	2
Substitute D2		
- Iso octane	40	0.5
- 95% Ethanol	60	2

Test results:

Food simulant	Result (mg/dm ²)	LOD (mg/dm ²)	LOQ (mg/dm ²)	Limit (mg/dm ²)
(A)10% (v/v) ethanol in aqueous solution▲	ND	0.2	1	10
(B)3% (w/v) acetic acid in aqueous solution	ND	0.2	1	10
(D1)50% (v/v) ethanol in aqueous solution	<1	0.2	1	10
Substitute D2▲				
- Iso octane	ND	0.2	1	10
- 95% Ethanol	ND	0.2	1	10

Remark: mg/dm² = Milligram per square decimetre
 < = Less than
 ND = Not detected (Less than LOD)
 LOD = Limit of detection
 LOQ = Limit of quantitation
 ▲ = Tested items are not included in the TISI Accreditation

As per client's request, the above condition and food simulant were used for the test.
 Tested component: Clear plastic bottle

Compliance requirement:

Compliance with the overall migration limit shall be verified on the basis of the level of the overall migration found in the third test.

Testing period: May 12, 2021 to May 24, 2021

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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 and its amendment and BS EN13130-1:2004.

I. Condition of contact in actual use:
Temperature: 70 °C, time : 2 hours

II. Test results:

Food simulant	Element	Result (mg/kg)			LOD (mg/kg)	LOQ (mg/kg)	Limit (mg/kg)
		1 st cycle	2 nd cycle	3 rd cycle			
3% (w/v) acetic acid in aqueous solution	Aluminium (Al)	ND	ND	ND	0.03	0.10	1
	Ammonium (NH ₄)	ND	ND	ND	0.05	0.10	-
	Antimony (Sb)	ND	ND	ND	0.01	0.02	0.04
	Arsenic (As)	ND	ND	ND	0.01	0.02	ND (0.01)
	Barium (Ba)	ND	ND	ND	0.03	0.10	1
	Cadmium (Cd)	ND	ND	ND	0.002	0.02	ND (0.002)
	Calcium (Ca)	ND	ND	ND	0.03	0.10	-
	Chromium (Cr)	ND	ND	ND	0.01	0.02	ND (0.01)
	Cobalt (Co)	ND	ND	ND	0.01	0.02	0.05
	Copper (Cu)	ND	ND	ND	0.03	0.10	5
	Europium (Eu)	ND	ND	ND	0.01	0.02	0.05
	Gadolinium (Gd)	ND	ND	ND	0.01	0.02	0.05
	Iron (Fe)	ND	ND	ND	0.03	0.10	48
	Lanthanum (La)	ND	ND	ND	0.01	0.02	0.05
	Lead (Pb)	ND	ND	ND	0.01	0.02	ND (0.01)
	Lithium (Li)	ND	ND	ND	0.03	0.10	0.6
	Magnesium (Mg)	ND	ND	ND	0.03	0.10	-
	Manganese (Mn)	ND	ND	ND	0.03	0.10	0.6
	Mercury (Hg)	ND	ND	ND	0.01	0.02	ND (0.01)
	Nickel (Ni)	ND	ND	ND	0.01	0.02	0.02
Potassium (K)	ND	ND	ND	0.03	0.10	-	
Sodium (Na)	ND	ND	ND	0.20	0.50	-	
Terbium (Tb)	ND	ND	ND	0.01	0.02	0.05	
Zinc (Zn)	ND	ND	ND	0.03	0.10	5	
Sum of Europium, Gadolinium, Lanthanum and Terbium	ND	ND	ND	0.01	0.02	0.05	

To be continued



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Test conducted:

- Remark:
- mg/kg = Milligram per kilogram
 - < = Less than
 - ND = Not detected (Less than LOD)
 - LOD = Limit of detection
 - LOQ = Limit of quantitation
 - ▲ = Tested items are not included in the TISI Accreditation

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

Tested component: Clear plastic bottle

Compliance requirement:

Compliance of the material or article shall be verified on the basis of the level of the migration found in the third test and on the basis of the stability of the material or article from the first to the third migration test. The stability of the material shall be considered insufficient if migration is observed above the level of detection in any of the three migration tests, and increases from the first migration test to the third migration test. In case of insufficient stability, compliance of the material shall not be established even in case the specific migration limit is not exceeded in any of the three tests.

Testing period: May 12, 2021 to May 25, 2021

***** E N D *****/WK/JP/NK
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