AT-1500

TEST REPORT

Test Report #	16H-02891	Date of Report Issue:	June 13, 2016
Date of Sample Received:	May 25, 2016	Pages:	Page 1 of 17

CLIENT INFORMATION:

Company:	Hit Promotional Products
Recipient:	Nathan Cotter
Recipient Email:	ncotter@hitpromo.net

SAMPLE INFORMATION:

Description:	34oz. Bottle w/ Spring Lid		
Assortment:	5 Colors	Purchase Order Number:	166801
SKU No.:	5833	Agent:	Growth-Sonic
Factory No.:	127720	Country of Origin:	China
Country of Distribution:	United States	Labeled Age Grade:	-
Quantity Submitted:	5 pcs per style + 1 lot Parts	Recommended Age Grade:	-
Testing Period:	06/02/2016 – 06/13/2016	Tested Age Grade:	-

OVERALL RESULT: **PASS**

Refer to page 2 for test result summary and appropriate notes.

ANSECO GROUP (HK) LIMITED

Vincent Chow Wai Kit
Manager, Chemical Laboratory

TEST RESULTS SUMMARY:

At the request of the client, the following tests were conducted:

CONCLUSION	TEST(S) CONDUCTED
PASS	CPSIA Section 101, Total Lead in Substrate Materials
PASS	Client's Requirement: Bisphenol A and Bisphenol S[#]
PASS	FDA 21 CFR 177.1210, Closures with Sealing Gaskets[#]
PASS	FDA 21 CFR 177.1520, Polyethylene
PASS	FDA 21 CFR 177.1520, Polypropylene Homopolymers
PASS	FDA 21 CFR 177.1630, Polyethylene Phthalate Polymers
PASS	FDA 21 CFR 177.2600, Rubber
PASS	Canadian Consumer Products Containing Lead (Contact with Mouth) Regulation (SOR/2010-273), Total Lead in Accessible Substrates

DETAILED RESULTS:

CPSIA Section 101, Total Lead in Substrate Materials

Test Method: CPSC-CH-E1001-08.3 (Metal), CPSC-CH-E1002-08.3 (Non-Metal)
Analytical Method: Inductively Coupled Plasma-Optical Emission Spectrometry

Specimen No.	1+2	3+4+5	6+7+8	14+15+16	17+18	**Total Limit (ppm)**
Test Item	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	
Total Lead (Pb)	ND	ND	ND	ND	ND	**100**
Conclusion	PASS	PASS	PASS	PASS	PASS	

Note:
ppm (Parts per million) = mg/kg (Milligrams per kilogram)
LT = Less than
ND = Not detected (Reporting Limit = 20 ppm)
Composite results are based on specimen of least mass resulting in highest potential concentration.

DETAILED RESULTS:

Client's Requirement: Bisphenol A and Bisphenol S

Test Method: AI|ANSECO Method#
Analytical Method: Liquid Chromatography with Mass Spectrometry

Specimen No.		1	2	8	9	
Test Item	CAS No.	Result (ppb)	Result (ppb)	Result (ppb)	Result (ppb)	**Limit (ppb)**
Bisphenol A (BPA)	80-05-7	ND	ND	ND	ND	**ND**
Bisphenol S (BPS)	80-09-1	ND	ND	ND	ND	**ND**
Conclusion		PASS	PASS	PASS	PASS	

Specimen No.		10	11	12	13	
Test Item	CAS No.	Result (ppb)	Result (ppb)	Result (ppb)	Result (ppb)	**Limit (ppb)**
Bisphenol A (BPA)	80-05-7	ND	ND	ND	ND	**ND**
Bisphenol S (BPS)	80-09-1	ND	ND	ND	ND	**ND**
Conclusion		PASS	PASS	PASS	PASS	

Note:
ppb (Parts per billion) = µg/kg (Micrograms per kilogram)
LT = Less than
ND = Not detected (Reporting limit: BPA = 1000 ppb; BPS = 200 ppb)

DETAILED RESULTS:

Client's Requirement: Bisphenol A and Bisphenol S

Test Method: AI|ANSECO Method#
Analytical Method: Liquid Chromatography with Mass Spectrometry

Specimen No.		14	15	16	17	
Test Item	CAS No.	Result (ppb)	Result (ppb)	Result (ppb)	Result (ppb)	**Limit (ppb)**
Bisphenol A (BPA)	80-05-7	ND	ND	ND	ND	**ND**
Bisphenol S (BPS)	80-09-1	ND	ND	ND	ND	**ND**
Conclusion		PASS	PASS	PASS	PASS	

Specimen No.		18	---	---	---	
Test Item	CAS No.	Result (ppb)	Result (ppb)	Result (ppb)	Result (ppb)	**Limit (ppb)**
Bisphenol A (BPA)	80-05-7	ND	---	---	---	**ND**
Bisphenol S (BPS)	80-09-1	ND	---	---	---	**ND**
Conclusion		PASS	---	---	---	

Note:
ppb (Parts per billion) = µg/kg (Micrograms per kilogram)
LT = Less than
ND = Not detected (Reporting limit: BPA = 1000 ppb; BPS = 200 ppb)

DETAILED RESULTS:

FDA 21 CFR 177.1210, Closures with Sealing Gaskets

Test Method: FDA 21 CFR 177.1210#

Specimen No.			1		
Test Item	Test Condition		Result	**RL**	**Limit**
	Temp.	Duration			
Distilled water extractive (ppm)	120°F	24 hours	ND	**10**	**50**
Conclusion			PASS		

Note:
Temp. = Temperature
°F = Degree Fahrenheit
ppm (Parts per million) = mg/kg (Milligrams per kilogram)
LT = Less than
ND = Not detected. Result value is less than reporting limit (RL).

Remark:
The specification is quoted from 21 CFR 177.1210 Table 2 Section 2.

DETAILED RESULTS:

FDA 21 CFR 177.1520, Polyethylene

Test Method: FDA 21 CFR 177.1520

Specimen No.			8		
Test Item	Test Condition		Result	**RL**	**Limit**
	Temp.	Duration			
Density (g/cc)	NA	NA	0.916	**NA**	**0.85-1.00**
n-Hexane extractive (% m/m)	50°C	2 hours	0.6	**0.4**	**5.5**
Xylene extractive (% m/m)	Reflux	2 hours	3.3	**1.0**	**11.3**
Conclusion			PASS		

Note:
Temp. = Temperature
°C = Degree Celcius
g/cc = Grams per cubic centimeter
% m/m = Percent by mass
NA = Not applicable
LT = Less than
ND = Not detected. Result value is less than reporting limit (RL).

Remark:
The specification is quoted from 21 CFR 177.1520 (c) 2.1.

DETAILED RESULTS:

FDA 21 CFR 177.1520, Polypropylene Homopolymers

Test Method: FDA 21 CFR 177.1520

Specimen No.			9		
Test Item	Test Condition		Result	**RL**	**Limit**
	Temp.	Duration			
Density (g/cc)	NA	NA	0.902	**NA**	**0.880 – 0.913**
Melting point (°C)	NA	NA	167.3	**NA**	**150 – 180**
n-Hexane extractive (% w/w)	Reflux	2 hours	0.9	**0.1**	**6.4**
Xylene extractive (% w/w)	25°C	1 hour	2.1	**0.5**	**9.8**
Conclusion			PASS		

Specimen No.			10		
Test Item	Test Condition		Result	**RL**	**Limit**
	Temp.	Duration			
Density (g/cc)	NA	NA	0.904	**NA**	**0.880 – 0.913**
Melting point (°C)	NA	NA	167.5	**NA**	**150 – 180**
n-Hexane extractive (% w/w)	Reflux	2 hours	0.8	**0.1**	**6.4**
Xylene extractive (% w/w)	25°C	1 hour	1.5	**0.5**	**9.8**
Conclusion			PASS		

Note:
Temp. = Temperature
°C = Degree Celsius
g/cc = Grams per cubic centimeter
% w/w = Percent by weight
NA = Not applicable
LT = Less than
ND = Not detected. Result value is less than reporting limit (RL).

Remark:
The specification is quoted from 21 CFR 177.1520 (c) 1.1.

DETAILED RESULTS:

FDA 21 CFR 177.1520, Polypropylene Homopolymers

Test Method: FDA 21 CFR 177.1520

Specimen No.			11		
Test Item	Test Condition		Result	**RL**	**Limit**
	Temp.	Duration			
Density (g/cc)	NA	NA	0.905	**NA**	**0.880 – 0.913**
Melting point (°C)	NA	NA	167.5	**NA**	**150 – 180**
n-Hexane extractive (% w/w)	Reflux	2 hours	0.8	**0.1**	**6.4**
Xylene extractive (% w/w)	25°C	1 hour	1.1	**0.5**	**9.8**
Conclusion			PASS		

Specimen No.			12		
Test Item	Test Condition		Result	**RL**	**Limit**
	Temp.	Duration			
Density (g/cc)	NA	NA	0.898	**NA**	**0.880 – 0.913**
Melting point (°C)	NA	NA	167.2	**NA**	**150 – 180**
n-Hexane extractive (% w/w)	Reflux	2 hours	1.0	**0.1**	**6.4**
Xylene extractive (% w/w)	25°C	1 hour	1.6	**0.5**	**9.8**
Conclusion			PASS		

Note:
Temp. = Temperature
°C = Degree Celsius
g/cc = Grams per cubic centimeter
% w/w = Percent by weight
NA = Not applicable
LT = Less than
ND = Not detected. Result value is less than reporting limit (RL).

Remark:
The specification is quoted from 21 CFR 177.1520 (c) 1.1.

DETAILED RESULTS:

FDA 21 CFR 177.1520, Polypropylene Homopolymers

Test Method: FDA 21 CFR 177.1520

Specimen No.			13		
Test Item	Test Condition		Result	**RL**	**Limit**
	Temp.	Duration			
Density (g/cc)	NA	NA	0.899	**NA**	**0.880 – 0.913**
Melting point (°C)	NA	NA	167.6	**NA**	**150 – 180**
n-Hexane extractive (% w/w)	Reflux	2 hours	1.0	**0.1**	**6.4**
Xylene extractive (% w/w)	25°C	1 hour	2.4	**0.5**	**9.8**
Conclusion			PASS		

Note:
Temp. = Temperature
°C = Degree Celsius
g/cc = Grams per cubic centimeter
% w/w = Percent by weight
NA = Not applicable
LT = Less than
ND = Not detected. Result value is less than reporting limit (RL).

Remark:
The specification is quoted from 21 CFR 177.1520 (c) 1.1.

DETAILED RESULTS:

FDA 21 CFR 177.1630, Polyethylene Phthalate Polymers

Test Method: FDA 21 CFR 177.1630

Specimen No.			14		
Test Item	Test Condition		Result	**RL**	**Limit**
	Temp.	Duration			
Distilled water extractive (mg/in^2)	250°F	2 hours	ND	**0.1**	**0.5**
n-Heptane extractive (mg/in^2)	150°F	2 hours	ND	**0.1**	**0.5**
Conclusion			PASS		

Specimen No.			15		
Test Item	Test Condition		Result	**RL**	**Limit**
	Temp.	Duration			
Distilled water extractive (mg/in^2)	250°F	2 hours	ND	**0.1**	**0.5**
n-Heptane extractive (mg/in^2)	150°F	2 hours	ND	**0.1**	**0.5**
Conclusion			PASS		

Note:
Temp. = Temperature
°F = Degree Fahrenheit
mg/in^2 = Milligrams per square inch
LT = Less than
ND = Not detected. Result value is less than reporting limit (RL).

Remark:
The specification is quoted from 21 CFR 177.1630 (f).

DETAILED RESULTS:

FDA 21 CFR 177.1630, Polyethylene Phthalate Polymers

Test Method: FDA 21 CFR 177.1630

Specimen No.			16		
Test Item	Test Condition		Result	**RL**	**Limit**
	Temp.	Duration			
Distilled water extractive (mg/in^2)	250°F	2 hours	ND	**0.1**	**0.5**
n-Heptane extractive (mg/in^2)	150°F	2 hours	ND	**0.1**	**0.5**
Conclusion			PASS		

Specimen No.			17		
Test Item	Test Condition		Result	**RL**	**Limit**
	Temp.	Duration			
Distilled water extractive (mg/in^2)	250°F	2 hours	ND	**0.1**	**0.5**
n-Heptane extractive (mg/in^2)	150°F	2 hours	ND	**0.1**	**0.5**
Conclusion			PASS		

Note:
Temp. = Temperature
°F = Degree Fahrenheit
mg/in^2 = Milligrams per square inch
LT = Less than
ND = Not detected. Result value is less than reporting limit (RL).

Remark:
The specification is quoted from 21 CFR 177.1630 (f).

DETAILED RESULTS:

FDA 21 CFR 177.1630, Polyethylene Phthalate Polymers

Test Method: FDA 21 CFR 177.1630

Specimen No.			18		
Test Item	Test Condition		Result	**RL**	**Limit**
	Temp.	Duration			
Distilled water extractive (mg/in^2)	250°F	2 hours	ND	**0.1**	**0.5**
n-Heptane extractive (mg/in^2)	150°F	2 hours	ND	**0.1**	**0.5**
Conclusion			PASS		

Note:
Temp. = Temperature
°F = Degree Fahrenheit
mg/in^2 = Milligrams per square inch
LT = Less than
ND = Not detected. Result value is less than reporting limit (RL).

Remark:
The specification is quoted from 21 CFR 177.1630 (f).

DETAILED RESULTS:

FDA 21 CFR 177.2600, Rubber

Test Method: FDA 21 CFR 177.2600

Specimen No.			2		
Test Item	Test Condition		Result	**RL**	**Limit**
	Temp.	Duration			
Distilled water extractive (mg/in^2)	Reflux	First 7 hours	ND	**2**	**20**
Distilled water extractive (mg/in^2)	Reflux	Succeeding 2 hours	ND	**0.1**	**1**
Conclusion			PASS		

Note:
Temp. = Temperature
mg/in^2 = Milligram per square inch
LT = Less than
ND = Not detected. Result value is less than reporting limit (RL).

Remark:
The specification is quoted from 21 CFR 177.2600 (e).

From Client's information, rubber article is intended for repeated use in contact with aqueous food only, therefore n-hexane extractive was not conducted.

DETAILED RESULTS:

Canadian Consumer Products Containing Lead (Contact with Mouth) Regulation (SOR/2010-273), Total Lead in Accessible Substrates

Test Method: CPSC-CH-E1001-08.3 (Metal), CPSC-CH-E1002-08.3 (Non-Metal)
Analytical Method: Inductively Coupled Plasma-Optical Emission Spectrometry

Specimen No.	1+2	3+4+5	6+7+8	14+15+16	17+18	**Total**
Test Item	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	**Limit (ppm)**
Total Lead (Pb)	ND	ND	ND	ND	ND	**90**
Conclusion	PASS	PASS	PASS	PASS	PASS	

Note:
ppm (Parts per million) = mg/kg (Milligrams per kilogram)
LT = Less than
ND = Not detected (Reporting Limit = 20 ppm)
Composite results are based on specimen of least mass resulting in highest potential concentration.

SPECIMEN DESCRIPTION:

Specimen No.	Specimen Description	Location
1	Translucent soft plastic (Silicone)	Gaskets (all styles)
2	Dull translucent soft plastic (Silicone)	Mouthpiece (all styles)
3	Red plastic	Lid/ button/ holder of mouthpiece (red style)
4	Green plastic	Lid/ button/ holder of mouthpiece (green style)
5	Blue plastic	Lid/ button/ holder of mouthpiece (blue style)
6	Purple plastic	Lid/ button/ holder of mouthpiece (purple style)
7	Black plastic	Lid/ button/ holder of mouthpiece (black style)
8	Translucent plastic (PE)	Straw (all styles)
9	Red plastic (PP-homo)	Lid (red style)
10	Green plastic (PP-homo)	Lid (green style)
11	Blue plastic (PP-homo)	Lid (blue style)
12	Purple plastic (PP-homo)	Lid (purple style)
13	Black plastic (PP-homo)	Lid (black style)
14	Transparent red plastic (Tritan)	Body (red style)
15	Transparent green plastic (Tritan)	Body (green style)
16	Transparent blue plastic (Tritan)	Body (blue style)
17	Transparent purple plastic (Tritan)	Body (purple style)
18	Transparent black plastic (Tritan)	Body (black style)

SAMPLE PHOTO:

-End Report-