



CONSUMER PRODUCTS SERVICES DIVISION

VISSTUN

Technical Report: (5114)115-0003C

June 05, 2014

Date Received: May 21, 2014

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Sample Description:	DISPOSABLE CLEAR LIDS	Sample Size:	16
Vendor:	VARIOUS	Style No(s):	N/A
Manufacturer:	VARIOUS	SKN/SKU No.:	N/A
Buyer:	N/A	PO No.:	N/A
Labeled Age Grade:	NOT PRESENT	Ref #:	N/A
Appropriate Age Grade:	ADULT	Country of Origin:	UNITED STATES
Client Specified Age Grade:	3+	Assortment No.:	N/A
Tested Age Grade:	CHILDREN PRODUCTS, OVER 3 YEARS OF AGE		
UPC Code:	N/A		

EXECUTIVE SUMMARY:

The sample(s) MEETS for the following requirement(s):

- The cadmium content requirement of the European Regulation (EC) No. 1907/2006 of the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH), Annex XVII concerning the Restrictions on the manufacture, placing on the market and use of certain dangerous substances, preparations and articles, Item no. 23 (amended up to EU No. 835/2012).
- The heavy metals requirements of the European "Council Directive 94/62/EC of 20 December 1994 on packaging and packaging waste."
- The limits set forth in US Food and Drug Administration (FDA), Title 21, Code of Federal Regulations (CFR), Section 177.1630, "Indirect Food Additives: Polyethylene phthalate polymers."
- The total lead content of 100ppm requirements in substrate materials (Consumer Products Safety Improvement Act (CPSIA) of 2008).*
- The total lead content of substrate materials requirements of Illinois Lead Poisoning Prevention Act, Public Act 095-1019.*
- The heavy metals content in packaging requirements of Model Toxics Legislation of the Toxics in Packaging Clearinghouse, TPCH (formerly the Coalition of Northeastern Governors, CONEG).
- The E. coli requirement of the client's specification.
- The salmonella requirement of the client's specification.
- The pseudomonas aeruginosa requirement of the client's specification.
- The staphylococcus aureus requirement of the client's specification.
- The total coliform requirement of the client's specification.

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The sample(s) MEETS for the following requirement(s): *(continued)*

- The total plate count requirement of the client's specification.
- The soluble heavy metals content requirement of client's specification.
- The requirements of Packaging Authorization for Trademark Vessels for use with vessels bearing trademarks of the Coca-Cola Company.

PK-SP-101 – Aesthetics Trademark Vessels
PK-SP-105 – Microbiological Cleanliness - Trademark Vessels
PK-SP-110 – Environmental Regulations - Trademark Vessels
PK-SP-111 – Lead & Heavy Metals - Trademark Vessels
PK-SP-112 – Extraction - Trademark Vessels
PK-SP-115 – Lid - Trademark Vessels

Note: Tests indicated with an asterisk (*) were conducted at the client's request.

Note: No accessible surface coating was present on the received sample(s). Consequently, the lead content analysis of surface coatings according to modified 16 CFR 1303, "Ban of lead-containing paint and certain consumer products bearing lead-containing paint" (Consumer Products Safety Improvement Act (CPSIA) of 2008), was not conducted.

Note: No accessible surface coating was present on the received sample(s). Consequently, the lead content analysis of surface coatings according to Illinois Lead Poisoning Prevention Act, Public Act 095-1019, was not conducted.

Note: At the request of the client, Leakage testing was conducted on the following styles:

- CF09, CF12, CF17, CF20, CF24, CF32, CF44

Note: At the request of the client, Aesthetics testing was conducted on the following styles:

- CD12, CD17, CD20, CD24, CD32

Note: The sample(s) was analyzed using analytical procedures taken from the following chapters of the U.S. Food and Drug Administration, Bacteriological Analytical Manual- Online.

- Chapter 3- Aerobic Plate Count: January 2001
- Chapter 4- Enumeration of *Escherichia coli* and the Coliform Bacteria: September 2002
- Chapter 5- *Salmonella*: April 2003; Updated September 2005, December 2005, June 2006, and December 2007
- Chapter 12- *Staphylococcus aureus* : January 2001
- Chapter 18- Yeasts, Molds and Mycotoxins: January 2001



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/cq

cc: MONIQUE FAVREAU, VISSTUN



RESULTS:

CADMIUM CONTENT (European Regulation (EC) No. 1907/2006 REACH Annex XVII, Item no. 23)

Category:			Plastics			
Element:			Cadmium			
Test Method			BS EN 1122: 2001, Method B			
Maximum Allowable Limit:			100 mg/kg (0.01% by weight)			
Sample Description			Reading 1	Reading 2	Average	Conclusion
Color / Component	Location	Style	Result (mg/kg)			
(A) Clear plastic	Lids	-	LT 5.00	LT 2.00	LT 3.5	Pass

LT = Less than
 # = Insufficient sample for duplicate analyses
 mg/kg = milligrams per kilogram (ppm = parts per million)

TOTAL LEAD CONTENT IN SUBSTRATES (Illinois General Assembly, Public Act 095-1019)

Test Method: Acid digestion followed by Atomic Absorption Spectrophotometry or Inductively Coupled Plasma Spectrometry

Element:			Lead	
Requirement: Maximum allowable limit: (mg/kg)			40 mg/kg	
Sample Description			Result (mg/kg)	Conclusion
Color / Component	Location	Style		
(A) Clear plastic	Lids	-	LT 5.00	Pass

LT = Less Than
 * = Average of duplicate analyses
 mg/kg = milligrams per kilogram (ppm = parts per million)

TOTAL LEAD CONTENT IN SUBSTRATE (100PPM) (Consumer Product Safety Improvement Act (CPSIA) of 2008)

Test Method: U.S. CPSC-CH-E1001-08.1 (June 21, 2010) or U.S. CPSC-CH-E1002-08.1 (June 21, 2010).

Analyte			Lead	
Requirement: Maximum allowable limit:			100 mg/kg	
Sample Description			Result (mg/kg)	Conclusion
Color / Component	Location	Style		
(A) Clear plastic	Lids	-	LT 5.00	Pass

LT = Less Than
 * = Average of duplicate analyses
 mg/kg = milligrams per kilogram (ppm = parts per million)



RESULTS:

HEAVY METALS PRESENT IN PACKAGING (European Council Directive 94/62/EC on Packaging and Packaging Waste)

Sample Identity	Color / Component	Location	Product style
(A)	Clear plastic	Lids	-

Sample Identity:	(A)	Maximum Allowable Limit
Parameter:	The sum of lead, cadmium, mercury and hexavalent chromium	
Element	Result (mg/kg (ppm))	(mg/kg)
Cadmium	LT 5.00	-----
Chromium	LT 5.00	-----
Mercury	LT 5.00	-----
Lead	LT 5.00	-----
Sum	LT 20.0	100
Conclusion:	Pass	-----

LT = Less Than

mg/kg = milligrams per kilogram (ppm = parts per million)



RESULTS:

SOLUBLE HEAVY METALS CONTENT (Client's specification)

Sample Identity	Color	Location	Style
A.	Clear plastic	Lid	-

Analyte	As	Ba	Cd	Cr	Hg	Pb	Sb	Se
Maximum Limit (mg/kg)	25	1000	75	60	60	90	60	500
Analytical Correction	60%	30%	30%	30%	50%	30%	60%	60%

Analyte	As	Ba	Cd	Cr	Hg	Pb	Sb	Se	Mass of Trace Amount	Conclusion
Sample	Result (mg/kg)								(g)	
A.	LT 2.5	LT 100	LT 7.5	LT 6.0	LT 6.0	LT 9.0	LT 6.0	LT 50	-	Pass

LT = Less Than

CR = adjusted analytical result

mg/kg = milligrams per kilogram (ppm=parts per million)

* = Average of duplicate analysis

As = Arsenic, Ba = Barium, Cd = Cadmium,

Cr = Chromium, Hg = Mercury, Pb = Lead,

Sb = Antimony, Se = Selenium

**FDA FOOD SIMULATING SOLVENT EXTRACTIVES
 INDIRECT FOOD ADDITIVES – POLYETHYLENE PHTHALATE POLYMERS**

The sample(s) was evaluated according to the US Food and Drug Administration (FDA), Title 21, Code of Federal Regulations (CFR), Section 177.1630, "Indirect Food Additives: Polyethylene phthalate polymers."

Condition of Use: The plastics are used for packaging, transporting, or holding food, excluding alcoholic beverages, at temperatures not to exceed 250°F.

Sample Description: Clear plastic lid

Parameter	Result (mg/sq. in)	Maximum Allowable Limit (mg/sq. in)	Conclusion
• Distilled water 250°F, 2hrs.	0.2	0.5	Pass
• n-Heptane 150°F, 2 hrs.	LT 0.1	0.5	Pass

LT = Less Than

N/A = Not Applicable

mg/sq. in. = milligrams per square inch (of food-contact surface)

* = An average of duplicate analyses.



Sample #	(5114)115-0003
Sample ID:	Disposable Clear Lids

RESULTS:

TEST	LIMIT	RESULT
Total Plate Count	< 250 cfu/premium	< 10 cfu/premium
Total Coliform	< 10 MPN/premium	< 0.3 MPN/premium
<i>E. coli</i>	Negative	Negative
<i>Staphylococcus aureus</i>	Negative	Negative
<i>Pseudomonas aeruginosa</i>	Negative	Negative
<i>Salmonella</i>	Negative	Negative

- The sample(s) was analyzed using the *Pseudomonas aeruginosa* screen procedure taken from the USP <62> Microbiological Examination of Nonsterile Products: Tests for Specified Microorganisms taken from the 35th edition of the United States Pharmacopeia, NF30, 2012.

Sample received and tested in good condition unless otherwise noted.

est. = Refers to actual counts not in the range of 30 to 300 colonies. When these counts are performed on diluted samples the final count may appear to be within this range when in actuality it was not.

cfu = colony forming units

g = gram

< = less than

EXHIBIT # 1



SAMPLE PRODUCT