CONSUMER PRODUCTS SERVICES DIVISION

VISSTUN

Technical Report: (5122)055-0088 APRIL 7, 2022
Date Received: FEBRUARY 24, 2022 Page 1 of 14

SHERRI HUANG
Get Bio Pak Co., Ltd
#2603-37, Yuniao Rd, Yuhang District,Hangzhou,China

Sample Description:	GETBIO CUP AND CONTAINER		
Vendor:	GET BIO PAK	Sample Size:	900
Manufacturer:	GET BIO PAK	Style No(s):	M9T6, CHS2, H909, F224, C916, W2T2
Buyer:	N/A	SKN/SKU No.:	N/A
Labeled Age Grade:	NOT PRESENT	PO No.:	N/A
Appropriate Age Grade:	CHILDREN PRODUCTS, OVER 3 YEARS OF AGE	Ref #:	N/A
Client Specified Age Grade:	NOT REQUESTED	Country of Origin:	CHINA
Tested Age Grade:	CHILDREN PRODUCTS, OVER 3 YEARS OF AGE	Assortment No.:	N/A
UPC Code:	N/A		

EXECUTIVE SUMMARY:

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

- The mechanical hazards requirements of 16 CFR 1500, “Federal Hazardous Substances Act Regulations.”
- The mechanical hazards requirements of 16 CFR 1500.53(c), “Bite test” (FHSA requirements).
- The flammability requirements of 16 CFR 1500.3(c) (6) (vi), "Flammable solid" (FHSA regulations).
- The mechanical hazards requirements of ASTM F963-17, “Standard consumer safety specification for toy safety”.
- The mechanical and physical properties requirements of the tested subclauses of the European Standard, “Safety of toys”, EN71: Part 1:2014+A1:2018, clauses 1-7.
- 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 heavy metals requirements of the European "Council Directive 94/62/EC of 20 December 1994 on packaging and packaging waste."
- The total lead content of 90ppm requirements of 16 CFR 1303, “Ban of lead-containing paint and certain consumer products bearing lead-containing paint” as mandated by Congress in section 101(f) of the Consumer Products Safety Improvement Act (CPSIA) of 2008, Public Law 110-314.
- The total lead content of surface coating requirements of Illinois Lead Poisoning Prevention Act, Public Act 095-1019.
- The total lead content requirements in children products according to the California Proposition 65 settlements of Alameda Superior Court RG 07356892.

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- 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 cadmium content requirement of the European Regulation (EC) No. 1907/2006 of the Registration, Evaluation, Authorisation 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. 2016/217).
- The soluble heavy metals content requirement of client's specification.
- The limits set forth in US Food and Drug Administration (FDA), Title 21, Code of Federal Regulations (CFR), Section 176.170, “Indirect Food Additives: Paper and Paperboard Components.
- 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.
- The total plate count requirement of the client’s specification.

The sample(s) was tested to the following requirement(s) and the data provided is for informational purposes only:

- The limits set forth in Title 21, Code of Federal Regulations (CFR), Section 177.1520 "Indirect Food Additives: Polymers - Olefin Polymers - Olefin Basic Copolymers (Described in paragraph (a)(3)(i))", paragraph (c)3.1, for use in articles that contact food except for articles used for packing or holding food during cooking.

BVCPS Buffalo Contact Information for this Report:			
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		Bureau Veritas Consumer Products Services, Inc.  Michael K. Trometer, Jr. Engineering Group Leader, Toy and Juvenile Products Department	

/SO

RESULTS:

Heavy Metals Content in Packaging or Packaging Materials - United States Toxics in Packaging Clearinghouse (TPCH), Model Toxics in Packaging Legislation with Revisions up to December 2008

Test Method I : With reference to U.S. EPA 3050B: 1996.
Test Method II : With reference to U.S. EPA 3051/3052: 1996.

Test Item(s)	Item / Component Description(s)	Location(s)	Style(s)
A	Multi color coating	Paper cup	A
B	Clear / multi color coating	Paper cup	B, E
C	Multi color / white coating	Plastic cup	D, F
D	White waxy paperboard	Paper cup / bottom	A, B, E
E	Multi color printed white waxy paperboard	Paper cup / bottom	C
F	Transparent plastic	Cup	D
G	White plastic	Cup bottom	D, F
H	Bright white plastic	Cup	F

Element(s)	Lead (Pb)	Cadmium (Cd)	Mercury (Hg)	Hexavalent Chromium (Cr VI)
Maximum Allowable Limit (mg/kg)	**100 mg/kg (Sum)**			

-	Unit	Result			
Test Item(s)	-	A	B	C	D
Test Method	-	II	II	II	II
Sample did not fully digest	-	--	--	--	--
Sum of Pb, Cd, Hg & Cr VI	mg/kg	LT 20.0	LT 20.0	LT 20.0	LT 20.0
Conclusion	-	Pass	Pass	Pass	Pass

-	Unit	Result			
Test Item(s)	-	E	F	G	H
Test Method	-	II	II	II	II
Sample did not fully digest	-	--	--	--	--
Sum of Pb, Cd, Hg & Cr VI	mg/kg	LT 20.0	LT 20.0	LT 20.0	LT 20.0
Conclusion	-	Pass	Pass	Pass	Pass

Note / Key :
ND = Not detected LT = Less than * = average of duplicate analysis
mg/kg = milligram(s) per kilogram = ppm = part(s) per million 10000 mg/kg = 1 %
^ = analysis performed by XRF
** = sample did not digest EPA = Environmental Protection Agency
ISO = International Organization of Standardization
Detection Limit (mg/kg) : Sum 20

Remark :
- This legislation was originally drafted by the Source Reduction Council of the Coalition of Northeastern Governors (CONEG).

- According to Model Toxics in Packaging Legislation with Revisions up to December 2008, Section 5(c), exemption were granted to recycled material containing up to 200 milligrams per kilogram for the sum of lead, cadmium, mercury and hexavalent chromium.
- Unless further specified, the reported result(s) of Test Item(s) was (were) performed by total metal(s) content analysis through complete decomposition.
- Test Item(s) marked as “recycled” was (were) claimed as recycled material by client. Therefore, this (these) Test Item(s) containing the found sum of lead, cadmium, mercury and hexavalent chromium level should be exempted.
- Total chromium (Cr) may have been detected in the result(s). Therefore, Test Method(s), with reference to U.S. EPA 3060A: 1996 and (or) with reference to International Standard ISO 3613: 2010, was (were) further performed on this (these) Test Item(s) in confirming the presence of hexavalent chromium.

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

Sample Identity	Color / Component	Location	Product style
(A)	Multi color coating	Paper cup	A
(B)	Clear / multi color coating	Paper cup	B, E
(C)	Multi color / white coating	Plastic cup	D, F
(D)	White waxy paperboard	Paper cup / bottom	A, B, E
(E)	Multi color printed white waxy paperboard	Paper cup / bottom	C
(F)	Transparent plastic	Cup	D
(G)	White plastic	Cup bottom	D, F
(H)	Bright white plastic	Cup	F

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

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

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

LT = Less Than *mg/kg = milligrams per kilogram (ppm = parts per million)* Pass

TOTAL LEAD CONTENT IN SURFACE COATING BY COMPOSITE TESTING ("Ban of Lead-containing paint and certain consumer products bearing Lead-containing paint", Consumer Product Safety Improvement Act (CPSIA) of 2008)

Test Method: U.S. CPSC-CH-E1003.09.1:2011

Element:				Lead		
Requirement: Maximum allowable limit:				90 mg/kg		
Sample Description				Result (mg/kg)		Conclusion
Color / Component		Location	Style	Overall	Potential	
(A)	Multi color coating	Paper cup	A	LT 5.00	-	Pass
(B)	Clear / multi color coating	Paper cup	B, E	LT 5.00	-	Pass
(C)	Multi color / white coating	Plastic cup	D, F	LT 5.00	-	Pass

LT = Less Than
** = Average of duplicate analyses*

mg/kg = milligrams per kilogram (ppm = parts per million)
Potential = Estimated lead content per component is based on calculation by component individual weight

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

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

Analyte	Lead	
Requirement: Maximum allowable limit:	40 mg/kg	
Requirement: Range limit requiring warning	40 – 100 mg/kg*	

Analyte				Lead (Pb)	Conclusion
Sample Description				Result (mg/kg)	
	Color / Component	Location	Style		
(A)	Multi color coating	Paper cup	A	LT 5.00	Pass
(B)	Clear / multi color coating	Paper cup	B, E	LT 5.00	Pass
(C)	Multi color / white coating	Plastic cup	D, F	LT 5.00	Pass

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

TOTAL LEAD CONTENT IN CHILDREN PRODUCTS (California Proposition 65 settlements of Alameda Superior Court RG 07356892)

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

		Maximum allowable limit	
Analyte		Lead	
Type 1	Paint and surface coatings	90 mg/kg	
Type 2	Substrate materials	100 mg/kg	

Analyte				Lead (Pb)	Conclusion
Sample Description				Result (mg/kg)	
	Color / Component	Location	Style		
Type 1: Paint and surface coatings					
(A)	Clear / multi color coating	Paper cup	B, E	LT 5.00	Pass
(B)	Multi color / white coating	Plastic cup	D, F	LT 5.00	Pass

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

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	

Analyte				Lead (Pb)	Conclusion
Sample Description				Result (mg/kg)	
	Color / Component	Location	Style		
(A)	White waxy paperboard	Paper cup / bottom	A, B, E	LT 5.00	Pass
(B)	Multi color printed white waxy paperboard	Paper cup / bottom	C	LT 5.00	Pass
(C)	Transparent plastic	Cup	D	LT 5.00	Pass
(D)	White plastic	Cup bottom	D, F	LT 5.00	Pass
(E)	Bright white plastic	Cup	F	LT 5.00	Pass

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

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

Analyte	Lead	
Requirement: Maximum allowable limit:	40 mg/kg	
Requirement: Range limit requiring warning	40 – 100 mg/kg*	

Analyte				Lead (Pb)	Conclusion
Sample Description				Result (mg/kg)	
Color / Component		Location	Style		
(A)	White waxy paperboard	Paper cup / bottom	A, B, E	LT 5.00	Pass
(B)	Multi color printed white waxy paperboard	Paper cup / bottom	C	LT 5.00	Pass
(C)	Transparent plastic	Cup	D	LT 5.00	Pass
(F)	White plastic	Cup bottom	D, F	LT 5.00	Pass
(G)	Bright white plastic	Cup	F	LT 5.00	Pass

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

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)			
(B)	Transparent plastic	Cup	D	LT 5.00	LT 5.00	LT 5.00	Pass
(C)	White plastic	Cup bottom	D, F	LT 5.00	LT 5.00	LT 5.00	Pass
(D)	Bright white plastic	Cup	F	LT 5.00	LT 5.00	LT 5.00	Pass

Category:			Paints on Painted Article	
Element:			Cadmium	
Test Method:			In house acid digestion	
Maximum Allowable Limit:			1000 mg/kg (0.1% by weight)	
Test Component			Result (mg/kg)	Conclusion
Colour/Component		Location	Style		
(A)	Multi color coating	Paper cup	A	LT 5.00	Pass
(B)	Clear / multi color coating	Paper cup	B, E	LT 5.00	Pass
(C)	Multi color / white coating	Plastic cup	D, F	LT 5.00	Pass

LT = Less than *mg/kg = milligrams per kilogram (ppm = parts per million)*

SOLUBLE HEAVY METALS CONTENT (Client's specification)

Sample Identity	Color	Location	Style
A.	Multi color coating	Paper cup	A
B.	Clear / multi color coating	Paper cup	B
C.	Mulit color / white coating	Plastic cup	D

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	0.1000	Pass
B.	LT 2.5	LT 100	LT 7.5	LT 6.0	LT 6.0	LT 9.0	LT 6.0	LT 50	0.1000	Pass
C.	LT 2.5	LT 100	LT 7.5	LT 6.0	LT 6.0	LT 9.0	LT 6.0	LT 50	0.1000	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 – COMPONENTS OF PAPER AND PAPERBOARD IN CONTACT WITH AQUEOUS AND FATTY FOODS

The sample(s) was evaluated according to the US Food and Drug Administration (FDA), Title 21, Code of Federal Regulations (CFR), Section 176.170, "Indirect Food Additives: Paper and Paperboard".

Condition of Use: (B) - Boiling water sterilized

Sample Description			
Color / Component		Location	Style
(A)	White paper	Cup	A
(B)	White paper	Inner cup	B
(C)	White paper	Inner cup	C
(D)	Black paper	Inner cup	D
(E)	White paper	Inner cup	E
(F)	White paper	Inner cup	F

Sample	Parameter	Result (mg/sq. in)	Maximum Allowable Limit (mg/sq. in)	Conclusion
(A)	• Distilled water	0.2	0.5	Pass
	• n-Heptane	0.1	0.5	Pass
(B)	• Distilled water	0.2	0.5	Pass
	• n-Heptane	0.1	0.5	Pass
(C)	• Distilled water	0.2	0.5	Pass
	• n-Heptane	0.1	0.5	Pass
(D)	• Distilled water	0.2	0.5	Pass
	• n-Heptane	0.1	0.5	Pass
(E)	• Distilled water	0.2	0.5	Pass
	• n-Heptane	0.1	0.5	Pass
(F)	• Distilled water	0.3	0.5	Pass
	• n-Heptane	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.*

FDA FOOD SIMULATING SOLVENT EXTRACTIVES
POLYMERS: OLEFIN POLYMERS - OLEFIN BASIC COPOLYMERS

The samples were tested according to the Food and Drug Administration (FDA), Title 21, Code of Federal Regulations (CFR), Section 177.1520 "Indirect Food Additives: Polymers - Olefin Polymers - Olefin Basic Copolymers (Described in paragraph (a)(3)(i))".

Sample Description:	Black plastic
Location:	Container
Condition of Use:	For use in articles that contact food except for articles used for packing or holding food during cooking.

PARAMETER	RESULT		REQUIREMENT	CONCLUSION
– Density	0.91	g/cc	0.85-1.00 g/cc	PASS
– Hexane Extractables	2.8	%	≤5.5%	PASS
– Solubles Xylene	12.9	%	≤30.0%	PASS

Sample Description:	White plastic
Location:	Container
Condition of Use:	For use in articles that contact food except for articles used for packing or holding food during cooking.

PARAMETER	RESULT		REQUIREMENT	CONCLUSION
– Density	GT 1.0	g/cc	0.85-1.00 g/cc	DATA
– Hexane Extractables	2.4	%	≤5.5%	PASS
– Solubles Xylene	3.9	%	≤30.0%	PASS

g/cc = grams per cubic centimetre
≤ = Less than or equivalent to
* = Average of duplicate analyses
LT = Less Than

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, https://www.fda.gov/food/laboratory-methods-food/bacteriological-analytical-manual-bam :

- Chapter 3 – Aerobic Plate Count
- Chapter 4 – Enumeration of Escherichia coli and the Coliform Bacteria
- Chapter 12 – *Staphylococcus aureus*

The sample(s) was examined according to the United States Pharmacopoeia USP 43rd edition, 2021. General Chapters, Microbiological Tests <62> (Microbiological Examination of nonsterile products: Tests for specified microorganism), harmonized method.

Sample ID	Pet nc	Caesars Sportsbook
Total Plate Count	est. <10 cfu/item	est. <10 cfu/item
Total Coliform	< 0.3 MPN/item	< 0.3 MPN/item
E. coli	< 0.3 MPN/item	< 0.3 MPN/item
Staphylococcus aureus	<10 cfu/item	<10 cfu/item
Pseudomonas aeruginosa	Negative	Negative
Salmonella	Negative	Negative

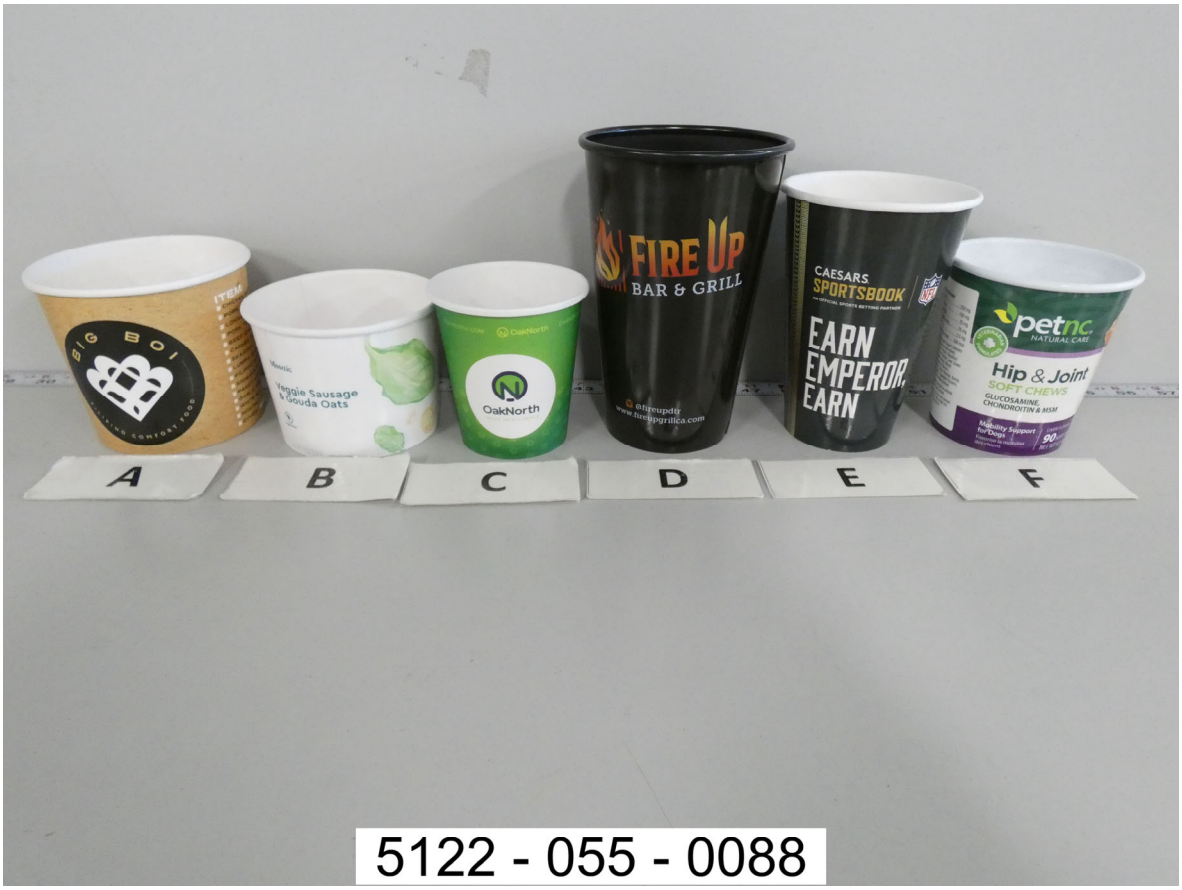
Sample ID	Oaknorth	Fire up
Total Plate Count	est. <10 cfu/item	est. <10 cfu/item
Total Coliform	< 0.3 MPN/item	< 0.3 MPN/item
E. coli	< 0.3 MPN/item	< 0.3 MPN/item
Staphylococcus aureus	<10 cfu/item	<10 cfu/item
Pseudomonas aeruginosa	Negative	Negative
Salmonella	Negative	Negative

Sample ID	Mosaic		Bigboi
Total Plate Count	est. <10 cfu/item		est. <10 cfu/item
Total Coliform	< 0.3 MPN/item		< 0.3 MPN/item
E. coli	< 0.3 MPN/item		< 0.3 MPN/item
Staphylococcus aureus	<10 cfu/item		<10 cfu/item
Pseudomonas aeruginosa	Negative		Negative
Salmonella	Negative		Negative

cfu = colony forming units
g = gram
< = less than
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.

Sample received and tested in good condition unless otherwise noted.

EXHIBIT # 1



SAMPLE PHOTO