

**PROTOCOL # 832-I**

**FREEZER BOWL**

Performance Test	Test Method	Samples	Test Principle/Requirements	Rating (Section or exec. Summary which failed items can be referenced)
<b>LABELING</b>				
Labeling / Packaging Review	FPLA 16 CFR 500 & 19 CFR 134	All Samples	Shall be legibly marked with the following information: -Distributor's name, trademark or other means of identification of the manufacturer or packer & address (City, State & Zip) -Product identification -Net quantity of the contents in terms of weight, measure or numerical count (Metric & US Standard) or a combination so as to give accurate information and facilitate value comparison by the consumer (if applicable) -Country of origin (if imported)	
Verify Label Claims	Visual Check/ Performance Claims	All Samples	The labeling must be valid and comply with all claims.	Claim: Actual:
BPA Free Label	Visual Check	All Samples	Must be conspicuously labeled as "BPA Free"  <b>Containers designed to be filled with food or liquid for children under the age of 3</b>	
Adult Tracking Label **If space limitations exist, contact Kohl's Quality Assurance & Product Integrity teams to discuss minimum required information (quality.assurance@kohls.com)	Kohl's Requirement	All Samples	Can be included on packaging when necessary: Kohl's Assigned Factory Number Manufacture Date (Month/Year) UPC #	
<b>PHYSICAL CHARACTERISTICS</b>				
Count	FPLA/ UPLR	1 Sample	As claimed/ measured (+3% / -0%)	Claim: Actual:
Dimensions	FPLA/ UPLR	1 Sample	As claimed/ measured (+3% / -0%)	Claim: Actual:
Capacity	FPLA/ UPLR	1 Sample	As claimed/ measured (+3% / -0%)	Claim: Actual:
<b>CONSTRUCTION QUALITIES</b>				
Kohl's Workmanship Review	Visual Check /Actual Use	1 Sample	All components shall be provided as claimed and shall not be deformed or fractured.  All hardware shall be provided  All welds shall be smoothly finished and free from pits and splatter  All components shall not contain any burrs or sharp edges (test by touch or sight)  Product shall not contain any loose components or unsecured fastening where rigidity is required	
<b>PERFORMANCE TESTING</b>				
Microwave Safe (If Claimed)	Actual Use	1 Sample	No visible damage after the test.  The sample is filled with water to 80% of its capacity. Heat item separately in 1200W microwave oven for 3.0 min. @ 100% power. No adverse effects. Grip temperature < 140° F (60° C) on samples with handle only. Report if label is not durably marked.	

Effects Of Extreme Temperature (Environmental)	Kohl's TM 30	1 Sample	Tier 1 : 24 Hours @ 30° F (1.1°C) and 24 Hours @ 100° F (37.7°C) – no failure.  Tier 2 : 48 Hours @ 0° F (-18°C) and 48 Hours @ 120° F (49°C) – no failure.	
Effect of Handwashing	Kohl's TM 32	3 Samples	No color change and no adverse effects – Hand wash with detergent for below defined cycles.  Tier 1: 5 Cycles Tier 2: 15 cycles	
*Dishwasher Safe (If Claimed)	Kohl's TM 57	3 Samples	Dishwasher / detergent for below defined cycles - no color change or adverse effects. Report if label is not durably marked.  Tier 1: 5 Cycles Tier 2: 15 cycles	
Stain Resistance	Actual Use	1 Sample	No objectionable stain after below timing placement: Ketchup, mustard & cooking oil Red wine, grape juice & coffee  Tier 1: 30min Tier 2: 4hours	
Effect of Cold	Kohl's TM 15	1 Sample	No visual change or failure after filling up with water and frozen at -18°C for 24 hours.	
Effect of Heat	Kohl's TM 16	1 Sample	No visual change or failure after 24 hours at 100°C.	
Insulating performance	Actual Use	1 Sample	Fill water to 50% capacity, then close the lid. The filled sample is conditioned at 0°C for at least 24 hours. Then, remove the sample from the chamber and leave it in ambient temperature of 32°C.  Record the time taken for the temperature of water to rise to 15°C.	
Seal Leakage Test	Actual Use	1 Sample	No drop on the water level after the sample is filled with water up to the rim and leave for 2 hours.	
Stability Test	Actual Use	1 Sample	Shall not overbalance on a 10° slope in all directions and shall not wobble when placed on a flat supporting surface.	
Drop Test	Actual Use	1 Sample	No visible damage after the sample is dropped for 3 times from a height of 3 ft. onto a vinyl-tiled floor.	

#### ANALYTICAL

\*Liquid Toxicity:

(Applicable only to Liquid Styles)

-Propylene Glycol Content	GC-MS	1 Sample	Minimum 12.0%. Note: Propylene Glycol shall be used as an antifreeze. Desired but not required	
-Presence Of Ethylene Glycol (Children's Products Only)	GC/MS	1 Sample	16 CFR 1500.231 - Must not be present	
-Presence Of Diethylene Glycol (Children's Products Only)	GC/MS	1 Sample	16 CFR 1500.231 - Must not be present	
-Methanol (Children's Products Only)	GC/MS	1 Sample	16 CFR 1500.231 - Must not be present	
-Mercury (Children's Products Only)	AAS	1 Sample	16 CFR 1500.231 - Must not be present	
-Methylene Chloride (Children's Products Only)	GC/MS	1 Sample	16 CFR 1500.231 - Must not be present	
-Petroleum Distillates (Children's Products Only)	GC/MS	1 Sample	16 CFR 1500.231 - Must not be present	
-Toluene (Children's Products Only)	GC/MS	1 Sample	16 CFR 1500.231 - Must not be present	

-Xylene (Children's Products Only)	GC/MS	1 Sample	16 CFR 1500.231 - Must not be present	
-Formaldehyde Content (%)	ISO 14184-1	1 Sample	16 CFR 1500.13 (>1% is considered as a strong sensitizer/warning required)	
Benzene Content (%)	GC/MS	1 Sample	16 CFR 1500.14  (≥ 5%: Products shall be labeled with the signal word "danger," the statement of hazard "Vapor harmful," the word "poison," and the skull and crossbones symbol.  ≥ 10%: Products shall bear the additional statement of hazard "Harmful or fatal if swallowed" and the additional statement "Call physician immediately.")	
*Microbial Test: (Applicable only to Liquid Styles)				
*Standard Bacteria Count (HPC)	APHA 9215B	500 ml	500 HPC Maximum	
*Coliform Count	APHA 9222B		Must not be present	
*Mould & Yeast	FDA 8th, Rev. A, 1998, Chapter 18		< 1 cfu/mL	
*Lead In Scrapable Surface Coating	ASTM E1613/E1645	1 Sample	≤90 ppm (0.009% by weight).  (CPSA – 16 CFR 1303)	
*Toxicology (Plastics and polymeric coating)	21 CFR 175/177	1 Sample	Must comply with applicable requirements of FDA.	
*Bisphenol A (BPA) Content  Scope: 1) Reusable food or beverage containers (ie, food contact), including lid, cup, etc). 2) Sports bottles	Solvent extraction and analysis by LC/MS  Various US State Laws (CT, WA, NY, DE, IL, MA, MD, ME, MN, NV, VT, WI, the District of Columbia, Chicago City)	All Samples & All Colorways	<b>Shall not contain any detectable level of Bisphenol A</b>  Remark: Actual testing shall be done on all accessible plasticized material including coatings and plastic.  Exempt Materials: Glass, Metal, Wood, Textiles.  Plastic layer or coating on exempt material shall need to be tested. Vendor shall be responsible for compliance of other materials.	
PFAS Supplemental Protocol (1600)	Refer to Protocol 1600	All Samples	All samples shall be reviewed against the requirements of PFAS Supplement Protocol to determine if additional testing or labeling is required	
Total Lead	Metal: CPSC-CH-E1001-08.3 Non Metal: CPSC-CH-E1002-08.3 Surface Coating: CPSC-CH-E1003-09.1	1 Sample	90ppm Minnesota 325E.3892 (HF 2310)  Products preempted by federal & state law (e.g., CPSC, FDA, etc) are exempt from testing.  Product exemptions for CPSC (16 CFR 1500.91 (d) and (e), 16 CFR 1500.88 and 16 CFR 1252)	
Total Cadmium	Substrate & Surface Coating: EPA or ASTM method from AFIRM or CPSC	1 Sample	40ppm (children) Washington State CHCC	
Total Cadmium	Substrate & Surface Coating: EPA or ASTM method from AFIRM or CPSC methods	1 Sample	75ppm Minnesota 325E.3892 (HF 2310)  Product Exemptions by federal & state law (e.g., CPSC, FDA, etc) are exempt from testing.	
Food Contact Supplemental Protocol (State Regulations Only)	Refer to Protocol 1800	All Samples	All samples shall be reviewed against the requirements of Food Contact Supplemental Protocol (State Regulation Only) to determine if additional testing or labeling is required	

**PRICING AND ADDITIONAL NOTE:**

\*Please refer to Kohl's preferred third party labs for individual pricing and sample size.

\*In addition to this protocol, any products designed for, intended for or appealing primarily to children, requires additional testing per Kohl's Testing Protocol # 601

PROTOCOL VERSION	DESCRIPTION OF CHANGE	Revised By	Approved By
832-A	Initial Release	Cindy Ng Nov 21, 2017	Elizabeth Armstrong Dec 6, 2017
832-B	Updated the test method of the insulating performance	Elizabeth Armstrong Dec 19, 2017	Elizabeth Armstrong Dec 19, 2017
832-C	Added adult tracking label	Elizabeth Armstrong June 24, 2020	Elizabeth Armstrong June 24, 2020
832-D	Updated microwave standards to 3.0 min	Elizabeth Armstrong Aug 10, 2020	Elizabeth Armstrong Aug 10, 2020
832-E	Added PFAS supplement protocol requirements, removed tier 3	Elizabeth Armstrong March 2022	Elizabeth Armstrong March 2022
832-F	Updated BPA Free Label line and BPA Content test line	Kevin Makocy October 2023	Kevin Makocy October 2023
832-G	Added test methods Total Lead, Total Cadmium (Adult & Childr	Violet Nelson November 2023	Violet Nelson November 2023
832-H	Updated MN Law to include exemptions	Elizabeth Armstrong March 2024	
832-I	Added new Food Contact Supplemental protocol (1800) requirements	Isaac Grossman September 2024	Isaac Grossman September 2024