

PROTOCOL # 813-T

FOODWARE / DRINKWARE - GLASS / CRYSTAL

Performance Test	Test Method	Samples	Test Principle/Requirements	Rating (Section or exec. Summary which failed items can be referenced)
THE USE OF METALLIC IS PROHIBITED IN FOODWARE / DRINKWARE ITEMS				
LABELING				
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:
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 #	
Chemical Disclosure / Labeling in Cookware	CA AB-1200 article 2 (mod) / CO HB-22 1345 sec. 25-15-604 (2)a-f (mod)/ Visual	All Samples	Cookware chemical disclosure labeling provided for CA AB-1200 and/or CO HB-22-1345 compliance pertaining to handles or any surface that comes into contact with food, foodstuff, or beverages shall meet the following: 1) List of chemicals is introduced by the phrase ""The product contains:"" 2) List of chemicals is followed by the phrase ""For more information about chemicals in this product, visit: / Para obtener más información sobre las sustancias químicas de este producto, visite: ""www.kohls.com/chemicaldisclosure"" and QR code which leads to that web address 3) Lab must verify that all disclosed chemicals are present on the Kohl's TRF 4) Labeling must be incorporated into retail packaging or printed on a sticker / hangtag which is affixed to retail packaging or the product. Fold out ""butterfly"" labels are acceptable. Printing on the inside of retail packaging or an information insert are not acceptable formats See example below:	
PHYSICAL CHARACTERISTICS				
Capacity (fl. oz. / mL)	FPLA/ UPLR	3 Samples	As claimed/ measured (+5% / -0%)	Claim: Actual:



Dimensions	FPLA/ UPLR	3 Samples	As claimed/ measured (+3% / -0%)	Claim: Actual:	
CONSTRUCTION QUALITIES					
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		
PERFORMANCE					
Effects 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		10 cycles
Dishwasher Safe (If Claimed)	Kohl's TM 57	3 Samples	Dishwasher / detergent below defined cycles - no color change or adverse effects. Report if label is not durably marked.		
			Tier 1		5 cycles
			Tier 2		10 cycles
Microwave Oven Safe (If Applicable)	Actual Use	3 Samples	Fill with water. Heat item separately in 1200 watt oven for 3.0 min. @ 100% power. No adverse effects. Grip temperature < 140° F (60° C) on samples. Report if label is not durably marked		
Stem Strength - Static	Loading Test	3 Samples	No breaking at below static load – secure 10 lb. Wt. to handle. Suspend with 12" cord		
			Tier 1		8 lbs
			Tier 2		10 lbs
Handle Strength - Static	Kohl's TM 34	3 Samples	Should withstand below defined the volume capacity weight		
			Tier 1		2 x volume capacity weight
			Tier 2		3 x volume capacity weight
Handle Strength - Impact	Kohl's TM 35	3 Samples	Withstand below impact force.		
			Tier 1		Min. 3oz.
			Tier 2		Min. 4oz.
Thermal Shock (if applicable per method)	With Reference to ASTM C554	3 Samples	No Cracking - With below defined timing @ 350°F (177°C) to room temp in water.		
			Tier 1		30 min
			Tier 2		1 hour
ANALYTICAL					
*Lead In Scrapable Surface Coating (If Applicable)	ASTM E1613/E1645	1 Sample	≤90 ppm (0.009% by weight). (CPSA – 16 CFR 1303)		
*Leachable Lead And Cadmium On Food Contact Surface (FDA)	AOAC 973.32 ASTM C738	6 Samples	Pb: < 1.0 ppm (large hollowware) < 2.0 ppm (small hollowware) < 0.5 ppm (cups / mugs / pitchers) < 3.0 ppm (flatware) Cd: < 0.25 ppm (large hollowware) < 0.5 ppm (small hollowware) < 0.5 ppm (flatware)		
*Leachable Lead And Cadmium On Food Contact Surface (Ca. Prop 65)	AOAC 973.32 ASTM C738	12 Samples	Pb: < 0.1 ppm (All Hollowware) < 0.226 ppm (Flatware) Cd: < 0.049 ppm (Large Hollowware) < 0.189 ppm (Small Hollowware) < 1.853 ppm (Flatware) (People v. Wedgwood et al.)		

*Lead And Cadmium In Decorating Materials On Exterior Surface (Ca. Prop 65) (If Applicable)	EPA SW 846 Method # 3050B/3051 (Mod.)	Wet Paint or Glaze Material (same formulation as the decorating material fired onto the product)	Decorating materials on the external surface of all types of foodware Pb: < 0.06% Cd: < 0.24% (0.06% for beverage containers) Decorating materials within the external lip and rim area of products that are used to consume beverage Pb: < 0.02% Cd: < 0.08% (0.06% for beverage containers)	
*Leachable Lead And Cadmium In Lip And Rim Area Of Decorated Drinking Vessels (If Applicable)	AOAC 973.32 ASTM C927	6 Samples	Pb: < 4.0 ppm Cd: < 0.4 ppm	
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 methods	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.	
Refer to protocol Hardlines Regulatory Supplement for additional State & Federal Regulations	Refer to Protocol 1800	All Samples	All samples shall be reviewed against the requirements of the Hardlines Regulatory 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
813-0	Initial Release	CY Chan Feb 10, 2004	Roger Mayerson Mar 08, 2004
813 - 1	Modified Microwave test requirement	Simon Leung Oct 04, 2004	Roger Mayerson Oct 11, 2004
813- 2	Add Handle Strength Static Test and Handle Strength Impact Test	Simon Leung Dec 20, 2004	Roger Mayerson Dec 20, 2004
813 – 3	Update Cd requirement for Prop. 65 on Flatware	Simon Leung Apr 07, 2005	Roger Mayerson Apr 11, 2005
813 – 4	Add Effects of Handwashing & Leachable Lead and Cadmium Test in External Decorating Materials Tests. Price Adjustment.	Simon Leung Oct. 31, 2008	Ro Jain Oct. 31, 2008
813-A	Changed protocol number from 813-4 to 813-A. Changed lead in surface coating to 90ppm from 600ppm, price adjustment	Elizabeth Armstrong April 1, 2010	Ro Jain April 1, 2010
813-B	Updated the microwave test to include all products, not just those with handles	Elizabeth Armstrong October 13, 2010	Ro Jain October 13, 2010
813-C	Added BPA Testing	Elizabeth Armstrong November 11, 2010	Ro Jain November 11, 2010
813-D	Removed BPA Testing	Elaine Smaczniak Sep 18, 2012	Ro Jain Oct 4, 2012
813-E	Separate the test line of Prop 65 to supplementary protocol	Elaine Smaczniak Sep 18, 2012	Ro Jain Oct. 4 2012
813-F	Differentiate the performance rating to Tier 1/Tier 2/Tier 3 Updated the package price & working days	Jeetendra Shelatkar Oct 4, 2013	Ro Jain Dec 16, 2013
813-G	Updated lead content pricing	Candy Chan Jul 30, 2014	Jeetendra Shelatkar Aug. 4, 2014
813-H	Renamed all in-house methods	Birkoff Chen Sep. 4, 2014	Elaine Smaczniak October 30, 2014
813-I	Updated microwave testing requirements to 4.5 min	Elizabeth Armstrong Feb 16, 2016	Jeetendra Shelatkar Feb 16, 2016
813-J	Updated the test method of Dishwasher safe to Kohl's TM 57.	Gigi Au May 20, 2016	Elizabeth Armstrong May 25, 2016
813-K	Added adult tracking label	Elizabeth Armstrong	Elizabeth Armstrong
813-L	Updated microwave standards from 4.5 min to 3.0 min	Elizabeth Armstrong Aug 10, 2020	Elizabeth Armstrong Aug 10, 2020
813-M	Updated Thermal Shock test to if applicable	Elizabeth Armstrong Feb 10, 2021	Elizabeth Armstrong Feb 10, 2021
813-N	Updated PFAS & Tiers	Jackie Deppisch March 2022	Jackie Deppisch March 2022
813-O	Added disclaimer for metallic items, updated email address for adult tracking label	Charlene Swanson September 2023	Charlene Swanson September 2023
813-P	Added Washington State & Minnesota State Law requirements to Analytical section	Jackie Deppisch Nov 2023	Jackie Deppisch Nov 2023
813-Q	1) Added Chemical Disclosure / Labeling in Cookware test line	Violet Nelson Dec 2023	Violet Nelson Dec 2023
813-R	Updated MN Law to add exemptions	Elizabeth Armstrong 2024	Elizabeth Armstrong 2024
813-S	1) Added new Food Contact Supplemental protocol (1800) requirements	Kevin Makocy Sept 2024	Kevin Makocy Sept 2024
813-T	Updated 1800 Hardlines Regulatory Supplement for additional State & Federal Regulations	Isaac Grossman Feb 2025	Isaac Grossman Feb 2025