


PROTOCOL # 814.2-U


TEA KETTLE

Performance Test	Test Method	Samples	Test Principle/Requirements	Rating (Section or exec. Summary which failed items can be referenced)
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THE USE OF METALLIC IS PROHIBITED IN FOODWARE / DRINKWARE ITEMS

LABELING

Labeling / Packaging Review	FPLA 16 CFR 500 & 19 CFR 134	All Samples	<p>Shall be legibly marked with the following information:</p> <ul style="list-style-type: none"> -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. assurnace1@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	<p>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:</p> <ol style="list-style-type: none"> 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 <p>See example below:</p> <div style="border: 1px solid black; padding: 5px; margin-top: 10px;"> <p>This Product Contains: (Este producto contiene:) (Chemical 1, Chemical 2, Chemical 3, Chemical 4, etc. For more information about chemicals in this product, visit: (Para obtener más información sobre las sustancias químicas de este producto, visite: https://cs.kohls.com/app/answers/detail/</p>  </div>	

PHYSICAL CHARACTERISTICS			a_id/4243?cid=ISMOR246&utm_medium=ISM	
Capacity (fl. oz. / mL)	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
Stain Resistance	Actual Use	1 Sample	No objectionable stain after below timing placement: - Black tea, orange juice, grape juice & coffee	
			Tier 1	1 hour
			Tier 2	2 hours
Humidity Test	Kohl's TM 31	1 Sample	No failure @ 95% RH @ 100° F (38° C) for below defined hours.	
			Tier 1	24 hours
			Tier 2	48 hours
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
Heat Transfer:				
Grip	Std Measure	1 Sample	(At Boil) - 150°F (66°C) Max	
Lid Knob	Std Measure	1 Sample	(At Boil) - 150°F (66°C) Max	
Whistle	Actual Use	1 Sample	Shall be audible @ 20 ft. away from the sample while water boiling. Perform 10 cycles letting the water cool in between each cycle	
Boil Dry Test	Actual Use	1 Sample	Shall be filled with 4 oz. of water and boiled until completely evaporated using high setting on electrical stove.* Continue to boil for 10 minutes and inspect for chipping, blistering of coating and failure in 5 minutes intervals.	
Thermal Conductivity (Dry)	Std. Measure	1 Sample	The temperature difference of all points on cooking surface should be within 25°F (14°C) when removed from heat source	
*Resistance to Corrosion	ASTM B 117 (Mod)	1 Sample	Shall withstand below defined hours in 1 % salt spray (fog) with no major visual change, pitting, or corrosion.	
			Tier 1	24 hours
			Tier 2	48 hours
			Modification = % of salt spray	
ENAMEL COATED				

PERFORMANCE				
*Thermal Shock Resistance (Applicable To Porcelain enamel finishes on steel and iron only)	CMA Standards Clause 17.2.3 ASTM C 385	1 Sample	Shall have an average rating of below defined cycles.	
				Tier 1
			Multi-Coated	3 cycles
			Single-Coated	7 cycles
				Tier 2
	Multi-Coated	5 cycles		
	Single-Coated	10 cycles		
*Surface durability (Applicable To Porcelain & Enamel finishes Only)	CMA Standards Ch. 16 & 17 ASTM C 283 (Mod.)	Varies	Aluminum Cookware Acid Solubility < 15 mg/ sq. inch Alkali resistance < 15 mg/ sq. inch Steel or Iron Cookware and Bakeware Acid solubility < 14 mg (multi-coated) Acid solubility < 50 mg (single coated)	
ANALYTICAL				
*Lead In Scrapable Surface Coating	CPSC-CHE1003-09	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) Cd: 0.25 ppm	
Total Lead	Metal: CPSC-CH-E1001-08.3 Non Metal: CPSC-CH-E1002-08.3 Surface Coating: CPSC-CH-E1003-09.1	1 Sample	990ppm 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.	
*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	Shall not contain any detectable level of Bisphenol A 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.	
* CA Prop 65	Refer to Protocol 1300	All Samples	All samples shall be reviewed against the requirements of California Proposition 65 to determine if additional testing or labeling is required	
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	
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	

STAINLESS STEEL (IF CLAIMED & FOOD CONTACT ONLY)				
Claimed Chromium Content < 16%				
*FDA – GRAS Stainless Steel (Applicable To Food Contact Surfaces Only)	Acid Digestion / ICP / ASTM E1019	1 Sample	Shall meet Stainless Steel Claim (Chromium and Nickel content) AND Minimum of 16% Chromium to be considered FDA GRAS	
GRAS evaluation	FDA Generally Recognized as Safe (GRAS) Guidelines/FDA Opinion / ASTM E1086-14 / ASTM E415-17 / CPSD-GB00003-MTHD / CPSD-AN00295-MTHD	1 Sample	"Metal intended to come into contact with food shall meet FDA GRAS requirement. Metal composition is conducted and evaluated if it is GRAS. Must meet 16% Chromium, if not conduct stainless steel - resistance to corrosion testing"	
* Stainless Steel - Resistance To Corrosion (Applicable if product does not comply GRAS test)	ASTM B117 (Mod.)	1 Sample	Shall withstand 48 Hours in 1% Salt Spray (Fog) with no major visual change, pitting or corrosion. Modification = % of salt spray	
OTHER METAL (FOOD CONTACT ONLY)				
* Leachable lead (Applicable to food contact metal only)	ASTM C738 / AOAC methods 973.32 and 973.82	1 Sample	With reference to CPG Sec. 545.500 (CPG 7117.05) Lead: ≤ 7.0 µg/mL, average of 6 units (product intended for adult) ≤ 0.5 µg/mL, all 6 units (product intended for infants and children)	
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
814 - 0	Initial Release	CY Chan Feb 10, 2004	Roger Mayerson Mar 08, 2004
814 - 1	Modified Microwave test requirement	Simon Leung Oct 04, 2004	Roger Mayerson Oct 11, 2004
814 - 2	Added Effects of Handwashing, Stainless Steel Composition and FDA Toxicology Tests. Removed Lead in Ceramicware Test. Price Adjustment.	Simon Leung Oct. 31, 2008	Ro Jain Oct. 31, 2008
814-A	Changed protocol number from 814-2 to 814-A. Changed lead in surface coating to 90ppm from 600ppm, price adjustment	Elizabeth Armstrong April 1, 2010	Ro Jain April 1, 2010
814-B	Updated microwave safe test so that all product not just those with handles are tested	Elizabeth Armstrong October 13, 2010	Ro Jain October 13, 2010
814-C	Added BPA Testing	Elizabeth Armstrong November 11, 2010	Ro Jain November 11, 2010
814.2-D	1. Removed Dishwasher and Microwave Test 2. Added Thermal Conductivity, Resistance to Corrosion, Enamel Coating performance tests 3. Updated the Test Method for Lead in Surface Coating 4. Updated the Test Principle/Requirements for Leachable Lead and Cadmium Test (FDA & Ca. Prop 65) 5. Price Adjustment.	Elaine Smaczniak Sep 18, 2012	Ro Jain Oct 4, 2012
814.2-E	FDA – GRAS Stainless Steel Test Updated	John Wong Dec 21, 2012	Rufus Moberly Jan 29, 2013
814.2-F	FDA – GRAS Stainless Steel Test Updated Added Corrosion Test	John Wong Jul 18, 2013	Rufus Moberly Jul 23, 2013
814.2-G	Differentiate the performance rating to Tier 1/Tier 2/Tier 3 Updated the package price & working days Removed Test of Escaping Steam Hole Area	Jeetendra Shelatkar Oct 4, 2013	Ro Jain Dec 16, 2013
814.2-H	Updated lead content and resistance to corrosion pricing	Candy Chan Jul 30, 2014	Jeetendra Shelatkar Aug. 4, 2014
814.2-I	Renamed all in-house methods	Birkoff Chen Sep 4, 2014	Elaine Smaczniak October 30, 2014
814.2-J	Updated BPA testing to test all accessible components if BPA Free is claimed	Elizabeth Armstrong July 30, 2015	Elizabeth Armstrong July 30, 2015
814.2-K	Added Leachable Lead for Other Metals (Food Contact Only) Updated Thermal Shock, Toxicology (Plastics and polymeric coating) and BPA Content	Gigi Au May 20, 2016	Elizabeth Armstrong May 23, 2016
814.2-L	Updated GRAS evaluation	Teana Robinette Sept 21, 2018	Teana Robinette Sept 21, 2018
814.2-M	Updated GRAS evaluation for s/s composition	Elizabeth Armstrong Jan 11, 2019	Elizabeth Armstrong Jan 11, 2019
814.2-N	Added adult tracking label	Elizabeth Armstrong June 24, 2020	Elizabeth Armstrong June 24, 2020
814.2-O	Added PFAS and Tiering updates	Jackie Deppisch March 2022	Jackie Deppisch March 2022
814.2-P	Updated BPA Testing and email for adult tracking label, added metallic disclaimer	Charlene Swanson October 2023	Charlene Swanson October 2023
814.2-Q	Added total lead and total cadmium test lines in analytical section for Minnesota State law	Charlene Swanson November 2023	Charlene Swanson November 2023
814.2-R	1) Added Chemical Disclosure / Labeling in Cookware test line	Violet Nelson Dec 2023	Violet Nelson Dec 2023
814.2S	Updated MN Law to include exemptions	Elizabeth Armstrong March 2024	Elizabeth Armstrong March 2024
814.2-T	1) Added new Food Contact Supplemental protocol (1800) requirements	Kevin Makocy Sept 2024	Kevin Makocy Sept 2024
814.2-U	Updated 1800 Hardlines Regulatory Supplement for additional State & Federal Regulations	Isaac Grossman Feb 2025	Isaac Grossman Feb 2025