


PROTOCOL # 817-AB BAKEWARE (GLASS / CERAMIC) (WITH GLASS/CERAMIC LIDS)				
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)	
Care And Use Instructions	CMA Engineering Standards Clause 6.5.1	All Samples	Preparation recommendations before initial use (for non-stick coatings, etc.) Maximum oven use temperature (for plastic handle) Surface cleaning and caring advice Advice on tightening of handle fixture Information to avoid misuse of abrasive pad and cleaner Warranty information (if applicable)	
Verify Label Claims	Visual Check/ Performance Claims	All Samples	The labeling must be valid and comply with all claims.	Claim: Actual:
Markings	CMA Standards Chapter 2	All Samples	Measurements of top-of-range cooking utensils & bakeware shall be marked permanently or with temporary labels	
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	<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> <p>1) List of chemicals is introduced by the phrase "The product contains:"</p> <p>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</p> <p>3) Lab must verify that all disclosed chemicals are present on the Kohl's TRF</p> <p>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> <p>See example below:</p> <div data-bbox="899 1705 1276 1843"> <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/a_id/4243?cid=ISMQR246&utm_medium=ISM</p>  </div>	
PHYSICAL CHARACTERISTICS				
Capacity	FPLA/ UPLR	3 Samples	As claimed/ measured (+3% / -0%)	Claim: Actual:

Size	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					
Microwave Oven Safe (If Claimed)	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.		
Oven Safe	Actual Use	1 Sample	Place empty in preheated 350° F (177° C) oven, (include lid), remove @ 1 hour, cool. Repeat if claimed oven safe temperature is higher than 350° F (177° C). Shall exhibit no cracking, crazing, melting, deformation, or color change		
Thermal Shock Resistance (Applicable to Glass Cover and Item Intended for Oven Use Only)	With Reference to ASTM C554	1 Sample	No Cracking - With below defined timing @ 350°F (177°C) to room temp in water.		
			Tier 1	30 minutes	
			Tier 2	1 hour	
			Product should be marked if it is not for oven use		
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	
Effects of Handwashing (If Claimed)	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	
Freezer Safe (If Claimed)	Temperature	1 Sample	Shall withstand extreme temperature of 0°F (-18°C) without cracking, or deformation		
Actual Use – Test to Provided Use Instructions (if Claimed)	Actual Use	1 Sample	Follow actual use instructions provided on packaging and record findings (pass/fail) 1000W Microwave Heat (unless otherwise stated)		
Stain Resistance	Actual Use	1 Sample	No objectionable stain after below timing placement: - Ketchup, mustard & cooking oil - Red wine, grape juice & coffee		
			Tier 1	30 minutes	
			Tier 2	1 hour	
Handle Strength	Kohl's TM 34	1 Sample	Shall withstand the below number of times of the volume capacity weight in cold & hot conditions without fracture		
			Tier 1	2 times	
			Tier 2	2.5 times	
Temperature Of Grip While Boiling Water (Stove Top Cookware Only)	Std. Measure	1 Sample	Should be less than 190°F (88°C) unless handle warning is provided		
Thermal Conductivity (Dry)	Std. Measure	1 Sample	All points on cooking surface should be within + 25°F (+ 14°C) when removed from heat source.		
Cleanability	Visual Check	All Samples	s Bring tomato sauce (25-50% of the capacity) to boil and let simmer over low heat for 30 min. Avoid dry boil. Empty and clean with non-abrasive cleanser and scouring pad or as directed. Repeat the below number of times consecutively. There shall be no visual damage to the finish.		
			Tier 1	3 times	
			Tier 2	4 times	
ANALYTICAL					
*Lead In Scrapable Surface Coating	ASTM E1613/E1645	1 Sample	≤90 ppm (0.009% by weight). (CPSA – 16CFR 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 (Large hollowware) 0.5 ppm (Small hollowware)	
*Toxicology (Plastics and polymeric coating)	21 CFR 175/177	1 Sample	Must comply with applicable requirements of FDA	
*Bisphenol A (BPA) Content (if BPA free is claimed)	Solvent extraction and analysis by LC/MS	1 Sample	Prohibited 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.	
* 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)				
* Stainless Steel Composition (Applicable To Food Contact Surfaces Only)	Acid Digestion / ICP / ASTM E1019	1 Sample	Stainless steel composition (Carbon, Manganese, Phosphorus, Sulfur, Silicon, Chromium, Nickel, Nitrogen, Molybdenum) test is to be conducted.	
* Stainless Steel - Resistance To Corrosion (Applicable if result of composition test does not meet the claimed specification)	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	
Claimed Chromium Content ≥ 16%				
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"	
*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	
* 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)	
WITH GLASS LIDS				
PERFORMANCE				
Lid Fitting	Std. Measure	1 Sample	Lid should fit securely without excessive looseness (>0.1")	
Microwave Oven Safe (If Claimed)	Actual Use	3 Samples	Fill with water. Heat item separately in 1200 watt oven for 2 min. @ 100% power. No adverse effects. Grip temperature < 140° F (60° C) on samples.	
Oven Safe	Actual Use	1 Sample	Place empty in preheated 350° F (177° C) oven, (include lid), remove @ 1 hour, cool. Repeat if claimed oven safe temperature is higher than 350° F (177° C). Shall exhibit no cracking, crazing, melting, deformation, or color change.	
Thermal Shock Resistance (Applicable to Glass Cover and Item Intended for Oven Use Only)	With Reference to ASTM C149	1 Sample	No Cracking - With below defined timing @ 350°F (177°C) to room temp in water.	

			<table><tr><td>Tier 1</td><td>30 minutes</td></tr><tr><td>Tier 2</td><td>1 hour</td></tr><tr><td colspan="2">Product should be marked If it is not for oven use</td></tr></table>	Tier 1	30 minutes	Tier 2	1 hour	Product should be marked If it is not for oven use		
Tier 1	30 minutes									
Tier 2	1 hour									
Product should be marked If it is not for oven use										
Assembly Strength (Lid Knob)	Actual Use	1 Sample	<table><tr><td>Tier 1</td><td>Shall withstand 5 lb. Pull for 60 sec</td></tr><tr><td>Tier 2</td><td>Shall withstand 10 lb. Pull for 60 sec.</td></tr></table>	Tier 1	Shall withstand 5 lb. Pull for 60 sec	Tier 2	Shall withstand 10 lb. Pull for 60 sec.			
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Tier 2	Shall withstand 10 lb. Pull for 60 sec.									
Impact Resistance (Lid Knob/Handle)	Impact	1 Sample	<table><tr><td colspan="2">Shall withstand a striking force of 250 gms (lid knob) and 500 gms (handle) from the below distance with no visible damage. Force is applied to top, 2 sides and bottom.</td></tr><tr><td>Tier 1</td><td>15 inches</td></tr><tr><td>Tier 2</td><td>20 inches</td></tr></table>	Shall withstand a striking force of 250 gms (lid knob) and 500 gms (handle) from the below distance with no visible damage. Force is applied to top, 2 sides and bottom.		Tier 1	15 inches	Tier 2	20 inches	
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Tier 1	15 inches									
Tier 2	20 inches									
ANALYTICAL										
*Lead In Scrapable Surface Coating	ASTM E1613/E1645	1 Sample	≤90 ppm (0.009% by weight). (CPSA – 16CFR 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 (Large hollowware) 0.5 ppm (Small hollowware)							
*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.							
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 Products specifically preempted by federal law (e.g, CPSIA) are exempt from testing. All federal laws do not automatically preempt state laws/testing. -Ceramic foodware and the interior parts of decorative watches will not be tested. -Vendor is responsible for compliance of other materials, including inaccessible materials							
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.’ Products specifically preempted by federal law (e.g, CPSIA) are exempt from testing. All federal laws do not automatically preempt state laws/testing. -Ceramic foodware and the interior parts of decorative watches will not be tested. -Vendor is responsible for compliance of other materials, including inaccessible materials							
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
817-0	Initial Release	CY Chan Feb 10, 2004	Roger Mayerson Mar 08, 2004
817 – 1	Modified Microwave test requirement	Simon Leung Oct 04, 2004	Roger Mayerson Oct 11, 2004
817-A	Changed the Title to Exclude Metal Cookware/Bakeware. Added Glass Cover to Thermal Shock Test. Removed Hot Oil and Normal Use Test. Price Adjustment.	Simon Leung Oct. 31, 2008	Ro Jain Oct. 31, 2008
817-B	Changed protocol number from 817-2 to 817-A. changed lead in surface coating to 90ppm from 600ppm, price adjustment	Elizabeth Armstrong April 1, 2010	Ro Jain April 1, 2010
817-C	Changed microwave oven test	Elizabeth Armstrong October 13, 2010	Ro Jain October 13, 2010
817-D	Added BPA Testing	Elizabeth Armstrong November 11, 2010	Ro Jain November 11, 2010
817-E	Added FDA-GRAS Stainless Steel Requirement Price adjustment	Elaine Smaczniak Sep 18, 2012	Ro Jain Oct 4, 2012
817-F	FDA – GRAS Stainless Steel Test Updated	John Wong Dec 21, 2012	Rufus Moberly Jan 29, 2013
817-G	Separate the test line of Prop 65 to supplementary protocol FDA – GRAS Stainless Steel Test Updated Added Corrosion Test.	John Wong Jul 18, 2013	Rufus Moberly Jul 23, 2013
817-H	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
817-I	Updated lead and resistance to corrosion test pricing	Candy Chan Jul 30, 2014	Jeetendra Shelatkar Aug. 4, 2014
817-J	Renamed in-house methods	Birkoff Chen Sep. 4, 2014	Elaine Smaczniak October 30, 2014
817-K	Updated BPA testing to test all accessible components if BPA Free is claimed	Elizabeth Armstrong July 30, 2015	Elizabeth Armstrong July 30, 2015
817-L	Updated microwave testing requirements to 4.5 min	Elizabeth Armstrong Feb 16, 2016	Jeetendra Shelatkar Feb 16, 2016
817-M	Leachable Lead for Other Metals (Food Contact Only) Updated the test method of Dishwasher safe to Kohl's TM 57, Thermal Shock Resistance, Toxicology (Plastics and polymeric coating) and BPA Content	Gigi Au May 23, 2016	Elizabeth Armstrong May 25, 2016
817-N	Added Actual Use per provided instructions if claimed	Elizabeth Armstrong June 1, 2017	Elizabeth Armstrong June 1, 2017
817-O	Updated GRAS evaluation	Teana Robinette Sept 21, 2018	Teana Robinette Sept 21, 2018
817-P	Updated GRAS evaluation for s/s composition	Elizabeth Armstrong Jan 11, 2019	Elizabeth Armstrong Jan 11, 2019
817-P	Added adult tracking label	Elizabeth Armstorg June 24, 2020	Elizabeth Armstorg June 24, 2020
817-Q	Added Resistance To Scratching on Cooking Surfaces	Elizabeth Armstrong July 23, 2020	Elizabeth Armstrong July 23, 2020
817-R	Updated microwave safe standards from 4.5 min to 3.0 min	Elizabeth Armstrong Aug 10, 2020	Elizabeth Armstrong Aug 10, 2020
817-S	Removed Resistance To Scratching on Cooking Surfaces	Elizabeth Armstrong March 22, 2021	Elizabeth Armstrong March 22, 2021
817-T	Added PFAS & updated tiering	Jackie Deppisch March 2022	Jackie Deppisch March 2022
817-U	Updated requirements for BPA testing, updated email for adult tracking label, added disclaimer for metallic items	Charlene Swanson October 2023	Charlene Swanson October 2023
817-V	Added test methods Total Lead and Total Cadmium (Adults & Childrens)	Violet Nelson Novemeber 2023	Violet Nelson Novemeber 2023
817-W	1) Added Chemical Disclosure / Labeling in Cookware test line	Violet Nelson Dec 2023	Violet Nelson Dec 2023
817-X	Updated MN Law to include exemptions	Elizabeth Armstrong March 2024	Elizabeth Armstrong March 2024
817-Y	1) Added new Food Contact Supplemental protocol (1800) requirements	Kevin Makocy Sept 2024	Kevin Makocy Sept 2024
817-Z	Updated format	Kevin Makocy Jan 2024	Kevin Makocy Jan 2024

817-AA	Updated 1800 Hardlines Regulatory Supplement for additional State & Federal Regulations	Isaac Grossman Feb 2025	Isaac Grossman Feb 2025
817-AB	Updated Total Lead and Total Cadmium test lines	Isaac Grossman June 2025	Isaac Grossman June 2025