

## URINE PRESERVATIVE CROSS-REFERENCE

**KEY:**
**P** = Preferred preservative

**X** = Acceptable preservative

**\*** = Acid-washed or Fisher-brand collapsible jug

**\*\*** = For multiple tests ordered in conjunction with uric acid, refrigerate and click on this link for instructions: [http://srdweb1/lab/tests/Chemistry/Aliquotting\\_24Hour\\_Urines-Multiple\\_Tests.pdf](http://srdweb1/lab/tests/Chemistry/Aliquotting_24Hour_Urines-Multiple_Tests.pdf)
**PRESERVATIVES:**
**Sulfamic:** For 24-Hour and Timed urine, 7 grams sulfamic acid packet (approx. 1 (one) teaspoon); for Random urine, approx. ¼ teaspoon

**HCl:** 20 mL of 6 N hydrochloric acid

**Acetic:** 25 mL acetic acid, 33% (or 50% if specified)

**Boric:** 10 grams boric acid

**Carb:** 5 grams sodium carbonate

**STORAGE:**

Unless stated otherwise, all 24Hr Urine collections are to be stored refrigerated by the patient during collection.

Test	Test Code	Preservative						Comments
		None	Sulfamic	HCl	Acetic	Boric	Carb	
<b>24-HOUR and TIMED URINE</b>								
Aldosterone (Mayo)	ALDOUSO							See Mayo collection procedure
Aminolevulinic Acid, Delta	MISC							
Arsenic (Mayo)	ARUSO							
Bence Jones Protein	BJ-24HR	<b>P</b>						For random urine use LIG-CHA
Calcium	CA-24H	<b>**</b>	<b>P</b>	<b>X</b>	<b>X</b>			If ordered with Uric Acid, review ** in the key
Calcium-Creatinine Clearance Ratio	CA-CL		<b>P</b>	<b>X</b>	<b>X</b>			Order blood Creat & Ca separately
Cadmium (Mayo)	CADUSO							See Mayo collection procedure
Catecholamines Fractionation	CATF		<b>P</b>	<b>X</b>				
Chloride	CL-24H	<b>P</b>	<b>X</b>		<b>X</b>	<b>X</b>		
Citrate	CITRTSO	<b>**</b>		<b>P</b>		<b>X</b>		See ARUP collection procedure. If ordered with Uric Acid, review ** in the key
Copper (Mayo)	COPURSO							See Mayo collection procedure
Cortisol, Free by HPLC	U-CORT	<b>P</b>	<b>X</b>					
Creatinine	CR-24H	<b>P</b>	<b>X</b>	<b>X</b>	<b>X</b>	<b>X</b>	<b>X</b>	
Creatinine Clearance	CRCLHW	<b>P</b>	<b>X</b>	<b>X</b>	<b>X</b>	<b>X</b>	<b>X</b>	Height / Weight required
Cystine, Quantitative (Mayo)	CYST							See Mayo collection procedure
5-HIAA (Mayo)	HIAASO							See Mayo collection procedure
Heavy Metals (Mayo)	METSUSO							
Histamine (Mayo)	MISC							
Homocysteine, Quantitative (Mayo)	MISC							
Homovanillic Acid	HVASO				<b>P</b>			
Hydroxyproline	MISC							Sent to ARUP: freeze aliquot

Test	Test Code	Preservative						Comments
		None	Sulfamic	HCl	Acetic	Boric	Carb	
Iron (Mayo)	MISC							See Mayo collection procedure
KTV Female or Male	KTV-F, KTV-M	P						
Lead (Mayo)	LEADUSO							See Mayo collection procedure
Magnesium	MG-24H	**	P	X	X			
Mercury (Mayo)	MERCUSO							See Mayo collection procedure
Metanephrine Fractionation	MET		P	X	X			
Microalbumin	MA	P						24-hour or overnight collection
Osmolality	OS-U	P						Random urine preferred; freeze aliquot after collection if not local
Oxalate	OXALSO	X **	P					See ARUP collection procedure. If ordered with Uric Acid, review ** in the key
Phosphorus	PH-24H	**	P	X				If ordered with Uric Acid, review ** in the key
Porphyryns, Quantitative (Mayo)	PORPHU	Includes porphobilinogen (PBG); for PBG quant alone, use random urine						See Mayo collection procedure
Potassium	K-24H	P	X	X	X	X	X	
Protein	PRO-24H	P						
Sodium	NA-24H	P	X	X	X	X		
Transfusion Reaction	MISC	P						
Urea Clearance	URCLHW	P						
Urea Nitrogen	URE-24H	P						
Uric Acid	UA-24H	**					X	If ordered with Uric Acid, review ** in the key
Vanillylmandelic Acid	VMASO				P			See Mayo collection procedure.
<b>RANDOM URINE</b>								
Amylase	AMY-CR	P						Adjust to pH 7-9 if stored >24 hours
Bence Jones Protein	LIG-CHA	P						
Beta-2-Microglobulin	B2M-RU	P						Adjust to pH 6-9 ASAP after receipt from patient
Cadmium, OSHA	MISC	P						
Calcium-Creatinine Ratio	CA-CR	P	X	X	X			
Catecholamine Fractionation (Random)			P	X				
Chloride	CL-RU	P	X		X	X		
Citrate	CITRISO			P		X		See ARUP collection procedure.
Creatinine	CRE-RU	P	X	X	X	X	X	
Cystine, Qualitative	CYSTINE	P	X	X	X	X		Freeze if >12 hour storage
Cystine, Quantitative	CYST	P				X		
Glycosaminoglycans	MISC	P						Freeze ASAP

Test	Test Code	Preservative						Comments
		None	Sulfamic	HCl	Acetic	Boric	Carb	
Homovanillic Acid (Random)	HVARSO	P						See Mayo collection procedure. Special Chemistry department staff to prior to sending to Mayo.
Metanephrines	MET-RND		P	X	X			
Methylmalonic Acid	MMA	P						
Microalbumin	MA-RU	P						
Myoglobin	MYO	P						Adjust to pH 7-9 ASAP after receipt from patient
Osmolality	OS-U	P						Freeze aliquot after collection if not local.
Oxalate-Creatinine Ratio	OX-CRSO	P						See Mayo collection procedure
Phosphorus	PHOS-RU	X	P	P				
Porphobilinogen, Qualitative	PBG-QL	P						Protect from light; freeze if >24 hour storage
Porphobilinogen, Quantitative	MISC	P						Protect from light; freeze sample; sent to Mayo
Porphyria Screen	POR-QL	P					X	
Potassium	K-RU	P	X	X	X	X	X	
Pregnancy Test, Qualitative	PGQL	P						
Protein-Creatinine Ratio	PRO-CR	P						
Renal Failure Indices	RI	P	X	X	X	X		
Sodium	NA-RU	P	X	X	X	X		
Toxicology Screen	TOX	P						
TRP, neonatal or adult	NEOTRP	P	X	X				
Urea Nitrogen	UREA-RU	P						
Uric Acid-Creatinine Ratio	URIC-CR	P					X	
Vanillylmandelic Acid (Random)	VMARSO	P						See Mayo collection procedure. Special Chemistry department staff to adjust pH prior to sending to Mayo.