

Most timed urine collections can be performed on samples collected in a plain urine container without special preservatives provided that the container is kept refrigerated/cold during the timed collections. Clear instructions should be given to the patient about the importance of keeping the collection at refrigerator temperature throughout the period of collection. If a refrigerator is not available, an ice chest can be used as an alternative to keep the container cold that is holding the urine.

Tests that require collection in a special container or a container with special additives are noted in the chart below.

Most tests may be collected together unless required collection times are in conflict (i.e., 12-hour collection mandatory, spot collection mandatory, etc.). Check the chart for test container requirements. For tests not listed here, check the lab manual for container and collection instructions for the test in question.

Collection containers containing special additives can be obtained from each of the hospital-based laboratories or phlebotomy locations. If the container has an additive, label the container with the type of additive present.

The total urine volume collected should be recorded and the volume that is entered into the laboratory information system should be checked by an independent observer to catch transcription errors and ensure accuracy of the recorded volumes.

The entire urine collection should be thoroughly mixed by repeated inversion of the container prior to preparing aliquots for testing. For some tests, the aliquots must be acidified before testing or placed in a special transport tube before sending for testing. See the laboratory manual for processing instructions for each test.

Test Name	Test Code	Sample Type	Plain Container	Amber Container	Acid Wash Container	30ml 6N HCL	10g Boric Acid	Special Patient or Transport Instructions
5-Hydroxyindoleacetic Acid, 24 Hour Urine	5HQT	Refrigerated 24 Hour Urine	Preferred	Acceptable	No	Acceptable	No	Food Restrictions - Check and print UCSF Lab Manual Page for patient
Album (Microalbumin), Urine	AU24	Refrigerated 24 Hour Urine or Timed Urine	Preferred	Acceptable	Acceptable	No	Acceptable	Minimum Acceptable time period for "Timed" collection is 6 hours.
Aldosterone, Urine	ALDU	Refrigerated 24 Hour Urine	Preferred	Acceptable	Acceptable	No	Acceptable	

Test Name	Test Code	Sample Type	Plain Container	Amber Container	Acid Wash Container	30ml 6N HCL	10g Boric Acid	Special Patient or Transport Instructions
Arsenic, 24 Hour Urine	ASU	Refrigerated 24 Hour Urine	No	No	Required	No	No	Food Restrictions - Check and print UCSF Lab Manual Page for patient
Calcium, Total, 24 Hour Urine	CAU	Refrigerated 24 Hour Urine	Preferred	Acceptable	Acceptable	Acceptable	Acceptable	
Chloride, 24 Hour Urine	CLU	Refrigerated 24 Hour Urine	Preferred	Acceptable	Acceptable	No	Acceptable	
Chromium, 24 Hour Urine	MOLT	Refrigerated 24 Hour Urine	No	No	Required	No	No	
Citrate, 24 Hour Urine	CITU	Refrigerated 24 Hour Urine	Preferred	Acceptable	Acceptable	No	Acceptable	
Copper, 24 Hour Urine	COPU	Refrigerated 24 Hour Urine	No	No	Required	No	No	
Cortisol, Unconjugated, Urine	CRTF	Refrigerated 24 Hour Urine	Preferred	Acceptable	Acceptable	Acceptable	Acceptable	
Creatine Disorder Panel Urine	CDPU	Random Urine	Required	No	No	No	No	
Creatinine Clearance	CRCL	Refrigerated 24 Hour Urine or Timed Urine and Serum	Preferred	Acceptable	Acceptable	Acceptable	Acceptable	Record patient's weight in kg or lbs.

Test Name	Test Code	Sample Type	Plain Container	Amber Container	Acid Wash Container	30ml 6N HCL	10g Boric Acid	Special Patient or Transport Instructions
Creatinine, 24 Hour Urine	CRU	Refrigerated 24 Hour Urine or Timed Urine	Preferred	Acceptable	Acceptable	Acceptable	Acceptable	Minimum Acceptable time period for "Timed" collection is 6 hours. Record patient's weight in kg or lbs.
Delta-Aminolevulinic Acid, Quantitative, 24 Hour Urine	ALAQ	Refrigerated 24 Hour Urine	No	Required	No	No	No	Cover container with aluminum foil to project from light.
Delta-Aminolevulinic Acid, Quantitative, Random Urine	ALAQ	Refrigerated Random Urine	Required	N/A	N/A	N/A	N/A	Time Specific Collection - Check Lab Manual for details. Cover container with aluminum foil to project from light.
D-Xylose Absorption, Urine	MOLT	Refrigerated Timed Urine	Preferred	No	No	No	No	Entire urine output over 5 hour period.
Catecholamines, Fractionated, 24 Hour Urine	UCAF	Refrigerated 24 Hour Urine	Preferred	Acceptable	Acceptable	Acceptable	Acceptable	
Amino Acid, Urine, Quantitative	AAQU	Random Urine	Required	No	No	No	No	
Free Kappa & Lambda Light Chains, Urine	FRULC	Refrigerated 24 Hour Urine or 10ml Random Urine	Preferred	Acceptable	Acceptable	No	No	
Glucose, 24 Hour Urine	GLUU	Refrigerated 24 Hour Urine	Preferred	Acceptable	Acceptable	Acceptable	Acceptable	
Histamine, Urine	HISTU	Refrigerated 24 Hour Urine	Preferred	Acceptable	Acceptable	No	No	
Homovanillic Acid, 24 Hour Urine	HVA	Refrigerated 24 Hour Urine	Preferred	Acceptable	Acceptable	Acceptable	No	Food Restrictions - Check and print UCSF Lab Manual Page for patient

Test Name	Test Code	Sample Type	Plain Container	Amber Container	Acid Wash Container	30ml 6N HCL	10g Boric Acid	Special Patient or Transport Instructions
Immunofixation Electrophoresis, Urine	IFEU	Refrigerated 24 Hour Urine or Random Urine	Preferred	Acceptable	Acceptable	No	No	
Iodine, 24 Hour Urine	IODI	Refrigerated 24 Hour Urine	Preferred	Acceptable	Acceptable	No	No	
Lead, 24 Hour Urine	PBUR	Refrigerated 24 Hour Urine	No	No	Required	No	No	
Magnesium, 24 Hour Urine	MGU	Refrigerated 24 Hour Urine	Preferred	Acceptable	Acceptable	Acceptable	Acceptable	
Manganese, Urine	MOLT	Refrigerated 24 Hour Urine	No	No	Required	No	No	
Mercury, 24 Hour Urine	HGU	Refrigerated 24 Hour Urine	No	No	Required	No	No	Food Restrictions - Check and print UCSF Lab Manual Page for patient
Metanephrines, 24 Hour Urine	METN	Refrigerated 24 Hour Urine	Preferred	Acceptable	Acceptable	Acceptable	No	Food Restrictions - Check and print UCSF Lab Manual Page for patient
N-Telopeptide, 24 Hour Urine	MOLT	Refrigerated 24 Hour Urine	Preferred	Acceptable	Acceptable	No	No	
Oxalic Acid, 24 Hour Urine	OXAU	Refrigerated 24 Hour Urine	Preferred	Acceptable	Acceptable	Acceptable	No	Food Restrictions - Check and print UCSF Lab Manual Page for patient
Phosphorus, 24 Hour Urine	PO4U	Refrigerated 24 Hour Urine or Timed Urine	Preferred	Acceptable	Acceptable	Acceptable	Acceptable	Minimum Acceptable time period for "Timed" collection is 6 hours.

Test Name	Test Code	Sample Type	Plain Container	Amber Container	Acid Wash Container	30ml 6N HCL	10g Boric Acid	Special Patient or Transport Instructions
Porphobilinogen, Quantitative, 24 Hour Urine	PBQT24	Refrigerated 24 Hour Urine	No	Required	No	No	No	IMPORTANT: Refrigerate container and protect from light (wrap with aluminum foil) during and after collection.
Porphobilinogen, Quantitative, Random Urine	PBQTRU	Refrigerated Random Urine	Required	N/A	N/A	N/A	N/A	IMPORTANT: Keep container refrigerated and protect from light using aluminum foil.
Porphyrins, Fractionated, Urine	PORFU	Refrigerated 24 Hour Urine	No	Required	No	No	No	IMPORTANT: Refrigerate container and protect from light (place in brown paper bag or wrap with aluminum foil) during and after collection.
Porphyrins, Fractionated, Random Urine	PORFUR	Refrigerated Random Urine	Required	N/A	N/A	N/A	N/A	IMPORTANT: Keep container refrigerated and protect from light using aluminum foil.
Potassium, 24 Hour Urine	KUR	Refrigerated 24 Hour Urine	Preferred	Acceptable	Acceptable	No	Acceptable	Minimum Acceptable time period for "Timed" collection is 6 hours.
Protein Electrophoresis, 24 Hour Urine	PEU	Refrigerated 24 Hour Urine	Preferred	Acceptable	Acceptable	No	No	
Protein, Total, 24 Hour or Timed Urine	TPU	Refrigerated 24 Hour Urine or Timed Urine	Preferred	Acceptable	Acceptable	No	No	Minimum Acceptable time period for "Timed" collection is 6 hours.
Sodium, 24 Hour or Timed Urine	NAUR	Refrigerated 24 Hour Urine or Timed Urine	Preferred	Acceptable	Acceptable	No	Acceptable	Minimum Acceptable time period for "Timed" collection is 6 hours.
Thallium, 24 Hour Urine	MOLT	Refrigerated 24 Hour Urine	No	No	Required	No	No	

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Urea Clearance	URCL	Refrigerated 24 Hour Urine or Timed Urine and Serum	Preferred	Acceptable	Acceptable	No	No	Record patient's weight in kg or lbs.
Urea Nitrogen, 24 Hour or Timed Urine	UNU	Refrigerated 24 Hour Urine or Timed Urine	Preferred	Acceptable	Acceptable	No	No	Minimum Acceptable time period for "Timed" collection is 6 hours.
Uric Acid, 24 Hour or Timed Urine	UCAU	Refrigerated 24 Hour Urine or Timed Urine	Preferred	Acceptable	No	No	No	Minimum Acceptable time period for "Timed" collection is 6 hours.
Vanillylmandelic Acid, Urine	VMA	Refrigerated 24 Hour or Random Urine	Preferred	Acceptable	Acceptable	Acceptable	No	Abstain from medications for 72 hours prior to collection.
Zinc, 24 Hour Urine	ZINU	Refrigerated 24 Hour Urine	No	No	Required	No	No	