

Urine Chemistry Collection and Processing

Test	Test #	Preferred preservative	Alternate preservative	Processing	Transport container	Performing lab
2,3-Dinor-11Beta-Prostaglandin F2 Alpha, 24 hour urine	994 LAB994	None		Mix well and record total volume. Submit a 4 mL aliquot, refrigerated.	Mayo Screw Cap Transfer Vial (T465)	Mayo
5-HIAA, quant, 24 hr urine	13488 LAB13488	None		Mix well and record total volume. Submit a 10 mL aliquot, ambient	LabCorp 12mL aliquot tube	LabCorp
Acylglycines, quantitative, urine	994 LAB994	None		Submit 10 mL random urine, frozen	Mayo Plastic, 10-mL urine tube (T068)	Mayo
Aldosterone, urine	13492 LAB13492	None		Mix well and record total volume. Submit a 10 mL aliquot, refrigerated	LabCorp 12mL aliquot tube	LabCorp
Amino acid profile, quantitative, urine	994 LAB994	None		Submit 5 mL (minimum 2 mL) random urine, frozen	4 mL screw-cap polypropylene frozen transport tube	LabCorp
Amylase, 2 hour urine	29 82150.4	None		Mix well and record total volume. Record total volume and hours of collection on requisition and/or aliquot. Submit 5-8 mL aliquot, refrigerated	10mL Urine Aliquot Tube	AHL
Amylase, 24 hour urine	29 82150.4	None		Mix well and record total volume. Record total volume and hours of collection on requisition and/or aliquot. Submit 5-8 mL aliquot, refrigerated	10mL Urine Aliquot Tube	AHL
Amylase, timed urine	29 82150.4	None		Mix well and record total volume. Record total volume and hours of collection on requisition and/or aliquot. Submit 5-8 mL aliquot, refrigerated	10mL Urine Aliquot Tube	AHL
Arsenic exposure profile, urine	994 LAB994	<i>Acid washed metal free container</i>		Mix well and record total volume. Submit 25mL aliquot, or entire specimen, in an Acid washed metal free container	Metal free aliquot cup	MedTox
Bence jones protein	42 LAB42	None		Submit 5-8 mL random urine	10mL Urine Aliquot Tube	AHL
Beta-2 microglobulin, urine	994 LAB994	None		Submit 10 mL random urine, refrigerated	LabCorp 12mL aliquot tube	LabCorp
Carbohydrate, urine	994 LAB994	None		Submit 5 mL random urine, frozen	Mayo Plastic, 10-mL urine tube (T068)	Mayo
Calcium, random urine	1341 82340.2	None		Submit 5-8 mL random urine	10mL Urine Aliquot Tube	AHL
Calcium, timed urine	57 82340.1	BA	AA, None	Submit 5-8 mL mixed aliquot, or entire specimen. Record total volume and hours of collection on requisition & aliquot. Specimen must be refrigerated during collection and transport.	10mL Urine Aliquot Tube	AHL
Calcium/creatinine ratio, urine	1044 LAB1044	None		Submit 5-8 mL random urine	10mL Urine Aliquot Tube	AHL

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Catecholamines, free, 24-hour urine	13490 LAB13490	HCl		Submit a 30mL aliquot (minimum 4 mL), refrigerated Include the total volume on the request	Sterile screw capped container	LabCorp
Chloride, random urine	1066 82436.2	None		Submit 10 mL random urine	10mL Urine Aliquot Tube	AHL
Chloride, timed urine	70 82436.1	None		Submit 5-8 mL mixed aliquot, or entire specimen. Record total volume and hours of collection on requisition & aliquot	10mL Urine Aliquot Tube	AHL
Chromium, 24 hr urine	12517 LAB12517	<i>Acid washed metal free container</i>		Submit 25 mL aliquot of 24 hr collection in an Acid washed metal free container	Metal free aliquot cup	MedTox
Citric acid (Citrate), 24-hour urine	13495 LAB13495	HCl		Submit a 25 mL aliquot (minimum 2.5 mL), refrigerated Include the total volume on the request	Sterile screw capped container	LabCorp
Cobalt, urine	994 LAB994	None		Submit 5 mL random urine (or a 5 mL aliquot from a 24 hour collection), ambient	LabCorp 12mL aliquot tube	LabCorp
Copper, random urine	13301 LAB13301	Acid washed metal free container		Submit 10 mL of random urine, refrigerated	Metal free aliquot cup	MedTox
Copper, 24 hour urine	13304 LAB13304	<i>Acid washed metal free container</i>		Submit a 10 mL (minimum 0.5 mL) aliquot in an acid washed, Acid washed metal free container	Metal free aliquot cup	MedTox
Cortisol, urinary free	13493 LAB13493	None		Submit a 100 mL (minimum 10 mL) aliquot of a 24 hour collection. Included total volume	Sterile screw capped container	LabCorp
Creatinine clearance	1054 82575.0	None	BA	Submit 5-8 mL mixed aliquot of 24hr specimen. Record total volume on requisition and/or aliquot. Must submit 1ml of serum as well as patient's height & weight	10mL Urine Aliquot Tube	AHL
Creatinine, random urine	62 82570.3	None	BA	Submit 5-8 mL random urine	10mL Urine Aliquot Tube	AHL
Creatinine, timed urine	85 82570.2	None	BA, HCl	Submit 5-8 mL mixed aliquot of 24hr specimen. Record total volume on requisition and/or aliquot	10mL Urine Aliquot Tube	AHL
Delta aminolevulinic acid, 24-hour urine	994 LAB994	AA		Mix well and record total volume. Submit a 3 mL aliquot, frozen and protected from light	LabCorp amber plastic frozen transport tube	LabCorp
Diuretic analysis, urine	994 LAB994	None		Submit 10mL random urine, ambient	Plastic urine container or transport tube without preservative	MedTox

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Ethanol, urine quant	402 82055.2	None		Submit 8mL random urine. Tube must be filled to prevent loss of volatile compound to head space.	10mL Urine Aliquot Tube	AHL
Fractionated excretion of sodium	236 LAB236	None		Submit 5-8 mL random urine and 1mL of serum, collected within 2hrs of the urine collection.	10mL Urine Aliquot Tube	AHL
Fractionated excretion of urea	12511 LAB12511	None		Submit 10mL random urine and 1 mL Li heparin plasma	10mL Urine Aliquot Tube	AHL
Free Kappa and Lambda light chains, quant, urine	13519 LAB13519	None		Submit 2 mL random urine (or a 2mL aliquot from a 24 hr collection), ambient	LabCorp 12mL aliquot tube	LabCorp
G-Hydroxybutyric acid, urine	2008A LAB2008	None		Submit 10 mL random urine	Plastic urine container or transport tube	MedTox
Glucose, timed urine	377 82945.1	None		Submit 8mL (minimum 1mL) mixed aliquot. Record total volume and hours of collection on requisition and/or aliquot	10mL Urine Aliquot Tube	AHL
Glucose, urine qualitative	376 81005.2	None		Submit 5-8 mL random urine	10mL Urine Aliquot Tube	AHL
Hemosiderin, urine	13483	None		Submit 4mL of a first am void, frozen	4 mL screw-cap polypropylene frozen transport tube	ARUP via LabCorp
Homovanillic acid + Vanillylmandelic acid, 24 hr urine	994 LAB994	None		Mix well and submit a 4 mL (minimum 2 mL) aliquot. Include total volume	LabCorp 12mL aliquot tube	LabCorp
Homovanillic acid, 24-hour urine	994 LAB994	None	HCl	Mix well and submit a 4 mL aliquot. Include total volume	LabCorp 12mL aliquot tube	LabCorp
Homovanillic acid, random urine	994 LAB994	None		Submit 10 mL of random urine, ambient	LabCorp 12mL aliquot tube	LabCorp
Immunofixation, urine, random	3704 86335.0	None		Submit 5-8 mL random urine	10mL Urine Aliquot Tube	AHL
Immunofixation, urine, timed	12472 LAB12472	None		Mix well and record total volume. Submit a 8 mL aliquot, refrigerated	10mL Urine Aliquot Tube	AHL
Iodine, 24 hr urine	994 LAB994	Acid washed metal free container		Mix well and record total volume. Submit a 10 mL aliquot, in a metal free transport aliquot cup, refrigerated	Metal free aliquot cup	MedTox
Iodine, random urine	13307 LAB13307	Acid washed metal free container		Submit 10 mL random urine in a metal free aliquot cup, refrigerated	Metal free aliquot cup	MedTox
Ketones, urine	334 81005.1	None		Submit 5-8 mL random urine	10mL Urine Aliquot Tube	AHL
Kidney stone urine/saturation	13502 LAB13502	None		Mix well and record total volume. Submit two (2) 100 mL aliquots, frozen .	Sterile screw capped container	LabCorp

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Lead, urine	994 LAB994	<i>Acid washed metal free container</i>		Submit 5 mL random urine (or a 5 mL aliquot from a 24 hour collection), ambient	Metal free aliquot cup	LabCorp
Leukotriene E4, 24 Hour Urine	994 LAB994	None		Mix well and record total volume. Submit a 5 mL (minimum 1 mL) aliquot.	Mayo Screw Cap Transfer Vial (T465)	Mayo
Magnesium, urine	994 LAB994	None		Patient should collect in a sterile cup, refrigerate the specimen and return it to the ordering site within 7 days. The laboratory staff must transfer the specimen to a Urine Monovette with pH stabilizer prior to transport to the Central lab.	Urine Monovette with pH stabilizer	LabCorp
Mercury, urine	994 LAB994	<i>Acid washed metal free container</i>		Submit 5 mL of random urine (or a 5 mL aliquot from a 24 hr collection) in a Acid washed metal free container.	Metal free aliquot cup	LabCorp
Metal panel (As, Cd, Hg, Pb), 24 hr urine	13308 LAB13308	<i>Acid washed metal free container</i>		Submit a 10 mL aliquot of a 24 hr collection in a metal free aliquot cup. Include total volume	Metal free aliquot cup	MedTox
Metanephrines, fractionated, quantitative, 24-hour urine	13491 LAB13491	None	HCl	Record total volume and mix well. Submit a 2.5 mL aliquot, ambient	LabCorp 12mL aliquot tube	LabCorp
Metanephrines, random urine	994 LAB994	None		10mL random urine from the first am void	LabCorp 12mL aliquot tube	LabCorp
Methylmalonic acid, urine	994 LAB994	None		Submit 10mL or urine from the 2nd am void following an overnight fast, frozen .	Mayo Plastic, 10-mL urine tube (T068)	Mayo
Microalbumin, 24 hr urine	634 82043.1	None		Submit 5-8 mL mixed aliquot of 24hr specimen. Record total volume on requisition & aliquot.	10mL Urine Aliquot Tube	AHL
Microalbumin, random urine	630 82043.2	None		Submit 5-8 mL random urine	10mL Urine Aliquot Tube	AHL
Myoglobin, quantitative, random urine	994 LAB994	None		Submit 10 mL random urine, refrigerated	LabCorp 12mL aliquot tube	LabCorp
Nickel, urine	994 LAB994	<i>Acid washed metal free container</i>		Submit 10mL random urine in an Acid washed metal free container	Metal free urine transport container	MedTox
N-Methylhistamine, 24 hr urine	994 LAB994	None		Submit 4mL of random urine, or a 4 mL aliquot from a well mixed 24 hr urine collection, refrigerated	Mayo Screw Cap Transfer Vial (T465)	Mayo
N-Telopeptide cross-links (NTx), urine	13534 LAB13534	None		Submit 2 mL random urine from the <i>2nd am void</i> , or a 2 mL aliquot from a 24 hr collection, refrigerated	LabCorp 12mL aliquot tube	LabCorp
Organic acid analysis, urine	13584 LAB13584	None		Submit 10 mL random urine, frozen	Sterile screw capped container	LabCorp

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Orotic acid, urine	994 LAB994	None		Submit 3 mL random urine, frozen	4 mL screw-cap polypropylene frozen transport tube	LabCorp
Osmolality, urine	183 83935.0	None		Submit 8 mL (minimum 1mL) unpreserved random urine	10mL Urine Aliquot Tube	AHL
Oxalate, quantitative, 24-hour urine	13487 LAB13487	HCl		Mix well and record total volume. Submit a 10 mL aliquot (minimum 2.5 mL), ambient	LabCorp 12mL aliquot tube	LabCorp
pH, urine	351 81003.1	None		Submit 10 mL random urine	BD Urinalysis preservative tube	AHL
Phosphorus, random urine	994 LAB994	None		Transport ambient	Urine Monovette with pH stabilizer	LabCorp
Phosphorus, timed urine	206 84105.0	None		Submit 5-8 mL mixed aliquot of 24hr collection. Record volume and hours of collection on requisition & aliquot	10mL Urine Aliquot Tube	AHL
Porphobilinogen (PBG), quantitative, 24-hour urine	994 LAB994	AA	none	<i>Measure total volume and mix well. Submit a 3 mL aliquot, frozen and protected from light. Preservative is optional, however, required if ordered with Δ-ALA</i>	LabCorp amber plastic frozen transport tube	LabCorp
Porphobilinogen, quantitative, random urine	994 LAB994	None		Submit 2 mL random urine, frozen and protected from light .	LabCorp amber plastic frozen transport tube	LabCorp
Porphyrins, quantitative, 24-hour urine	13486 LAB13486	None		Mix well and record total volume. Submit a 2 mL aliquot, refrigerated and protected from light .	LabCorp 12 mL amber transport tube	LabCorp
Porphyrins, quantitative, random urine	13518 LAB13518			Submit 2 mL random urine, refrigerated and protected from light .	LabCorp 12 mL amber transport tube	LabCorp
Potassium, random urine	213 84133.2	None		Submit 5-8 mL random urine	10mL Urine Aliquot Tube	AHL
Potassium, timed urine	210 84133.3	None		Submit 5-8 mL mixed aliquot of 24hr specimen. Record total volume on requisition & aliquot	10mL Urine Aliquot Tube	AHL
Prostaglandin D2, urine	994 LAB994	None		Submit 10 mL random urine, frozen	Sterile screw capped container	Inter Science Institute via LabCorp
Protein ELP, 24 hr urine	218 LAB218	None		Submit 5-8 mL mixed aliquot of 24hr specimen. Record total volume on request & aliquot	10mL Urine Aliquot Tube	AHL
Protein ELP, random urine	3218 LAB3218	None		Submit 5-8 mL of random urine. <i>First morning void preferred</i>	10mL Urine Aliquot Tube	AHL

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Protein, quant, random urine	1184 84156.2	None		Submit 5-8 mL of random urine. <i>First morning void preferred</i>	10mL Urine Aliquot Tube	AHL
Protein, timed urine	361 84156.1	None		Submit 5-8 mL mixed aliquot of 24hr specimen. Record total volume on requisition & aliquot	10mL Urine Aliquot Tube	AHL
Protein/creatinine ratio, urine	2805 LAB2805	None		Submit 5-8 mL random urine	10mL Urine Aliquot Tube	AHL
Sodium, random urine	115 84300.2	None		Submit 5-8 mL random urine	10mL Urine Aliquot Tube	AHL
Sodium, timed urine	234 84300.1	None		Submit 5-8 mL mixed aliquot of 24hr specimen. Record total volume and hours of collection on requisition & aliquot	10mL Urine Aliquot Tube	AHL
Specific gravity, urine	372 81003.3	None		Submit 10 mL random urine	BD Urinalysis preservative tube	AHL
Sulfonylurea Screen, urine, quant	12515 LAB12515	None		Submit 5 mL random urine, refrigerated	Plastic urine container or transport tube without preservative	MedTox
Urea nitrogen, timed urine	264 84540.0	None		Record volume and hours of collection on requisition & submit a 5-8 mL mixed aliquot of 24hr specimen.	10mL Urine Aliquot Tube	AHL
Uric acid, timed urine	263 84560.0	None		Record volume and hours of collection on requisition & submit a 5-8 mL mixed aliquot of 24hr specimen.	10mL Urine Aliquot Tube	AHL
Urobilinogen, qualitative	383 84578.0	None		Submit 10 mL random urine	BD Urinalysis preservative tube	AHL
Vanillylmandelic Acid, 24-hour urine	13489 LAB13489	None	Acidic preservative	Mix well and record total volume. Submit a 4 mL aliquot (minimum 1.0 mL), ambient	LabCorp 12mL aliquot tube	LabCorp