



جدول اطلاعات مواد نگهدارنده و دمای حمل نمونه‌های ادرار

Test Name	Collection Time	Aliquot	Transport Temperature	Preservative	Additional Information
17-Hydroxycorticosteroids	Random or 24-hour	Three 4 mL aliquots	Frozen or refrigerated if preserved with boric acid	None if frozen. Also acceptable: pH adjusted to 5-7 with boric acid. Add 1 g boric acid/100 mL urine.	Refrigerate 24-hour specimen during collection. Mix well.
17-Hydroxyprogesterone, Urine	24-hour	5 mL	Frozen	None	Refrigerate 24-hour specimen during collection. Mix well.
17-Ketosteroids, Urine	24-hour	4 mL	Refrigerated	Preservation enhanced by adjusting pH to 2-4 with 6M HCl.	Refrigerate 24-hour specimen during collection. Mix well. Also acceptable: 4 mL urine added to standard transport tube with 12 mg Sulfamic Acid.
5-Hydroxyindoleacetic Acid (HIAA), Urine	Random or 24-hour	4 mL	Refrigerated	None	Refrigerate 24-hour specimen during collection. Mix well.
Acyclovir (Zovirax), Urine	Random	1 mL	Refrigerated	None	
Acylglycines, Quantitative, Urine	Random	6 mL	Frozen	None	Clinical information is needed for appropriate interpretation: complete Biochemical Genetics Patient History Form and submit with specimen.
Aldosterone, Urine	24-hour	4 mL	Frozen or refrigerated if preserved with HCl or acetic acid.	None if frozen immediately after collection. Or add 1g boric acid per 100 mL urine and freeze.	Refrigerate 24-hour specimen during collection. Mix well. Also acceptable: adjust pH to 2-4 with 6M HCl or 50% acetic acid and refrigerate.
Alpha-1-Microglobulin, Urine	24-hour	4 mL	Refrigerated	None	Refrigerate 24-hour specimen during collection. Mix well.
Aluminum, Urine	Random or 24-hour	Two 4 mL aliquots	Refrigerated, room temperature, or frozen	None if tested within 14 days of collection.	Collect in plastic container. Refrigerate 24-hour specimen during collection. Mix well. Submit specimen in two trace element-free transport tubes.
Amino Acids Quantitative, Urine	First-morning void is preferred.	Two 4 mL aliquots	Critical frozen	None	Clinical information is needed for appropriate interpretation: complete Biochemical Genetics Patient History Form and submit with specimen.
Aminocaproic Acid, Urine	Random	2 mL	Room temperature	None	
Aminolevulinic Acid (ALA), Urine	Random or 24-hour	4 mL	Refrigerated	None	Refrigerate 24-hour specimen during collection. Mix well. Protect from strong light. Submit specimen in an amber transport tube.
Amobarbital, Urine	Random	2 mL	Room temperature	None	
Amoxapine and Metabolite Quantitation, Urine	Random	2 mL	Room temperature	None	
Amylase, Urine	24-hour or timed	4 mL	Refrigerated	None	Refrigerate 24-hour specimen during collection. Mix well.
Anabolic Steroids Panel	Random	40 mL	Refrigerated	None	
Antidepressant Panel Quantitation, Urine	Random	2 mL	Refrigerated, room temperature, or frozen	None	
Antimony, Urine	Random or 24-hour	Two 4 mL aliquots	Refrigerated, room temperature, or frozen	None if tested within 14 days of collection.	Collect in plastic container. Refrigerate 24-hour specimen during collection. Mix well. Submit specimen in two trace element-free transport tubes.
Aprobarbital, Urine	Random	2 mL	Room temperature	None	
Aromatic Primary Amines, Urine	Collect at end of shift.	2 mL	Room temperature	None	
Arsenic, Fractionated, Urine	Random or 24-hour	Two 4 mL aliquots	Refrigerated, room temperature, or frozen	None if tested within 14 days of collection.	Collect in plastic container. Refrigerate 24-hour specimen during collection. Mix well. Submit specimen in two trace element-free transport tubes.
Arsenic, Urine with Reflex to Fractionated	Random or 24-hour	Two 4 mL aliquots	Refrigerated, room temperature, or frozen	None if tested within 14 days of collection.	Collect in plastic container. Refrigerate 24-hour specimen during collection. Mix well. Submit specimen in two trace element-free transport tubes.
Arylsulfatase A, Urine	24-hour	10 mL	Refrigerated	None	
Atenolol, Urine	Random	2 mL	Refrigerated	None	
Atropine, Urine	Random	2 mL	Refrigerated	None	
Barium, Urine	Random	1 mL	Refrigerated	None	Collect in a trace metal-free or acid-washed plastic container
Bence Jones Protein Detection, Quantitation and Characterization with Reflex to Quantitative Free Kappa and Lambda Light Chains, Urine	24-hour	Two 4 mL aliquots	Refrigerated	None	Refrigerate 24-hour specimen during collection. Mix well.
Bence Jones Protein, Qualitative Free Kappa and Lambda Light Chains, Urine	Random or 24-hour	Two 4 mL aliquots	Refrigerated	None	Refrigerate 24-hour specimen during collection. Mix well.
Bence Jones Protein, Quantitative Free Kappa and Lambda Light Chains, Urine	Random or 24-hour	Two 4 mL aliquots	Refrigerated	None	Refrigerate 24-hour specimen during collection. Mix well.
Benzodiazepines —Confirmation/Quantitation — Urine	Random	4 mL	Room temperature	None	
Benztropine, Urine	Random	4 mL	Refrigerated	None	
Beryllium, Urine	Random	3 mL	Refrigerated	None	Collect in a trace metal-free or acid-washed plastic container. Submit specimen in an trace element-free transport tube.

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Test Name	Collection Time	Aliquot	Transport Temperature	Preservative	Additional Information
Beta-2 Microglobulin, Urine	Random	3 mL	Frozen	If pH is >8, lower pH to 6–8 by adding 1M HCL. If pH<6, increase pH to 6–8 by adding 5% NaOH.	Record the pH on the transport tube and test request form.
Beta-hCG, Urine Qualitative	First-morning void is preferred or random	1 mL	Refrigerated	None	Collect in plastic container
Bicarbonate (HCO ₃), Urine	Random	4 mL	Critical frozen	None	Random urine in sealed container. Mix immediately upon collection, remove aliquot, and freeze.
Bismuth, Urine	Random or 24-hour	Two 4 mL aliquots	Refrigerated, room temperature, or frozen	None if tested within 14 days of collection.	Collect in plastic container. Refrigerate 24-hour specimen during collection. Submit specimen in two trace element-free transport tubes.
BK Virus, Quantitative PCR, Urine	Random	1 mL	Frozen	None	Critical sterile
Bladder Tumor Associated Antigen	Random	2 mL	Refrigerated	None	
Blastomyces dermatitidis Antigen EIA	Random	2 mL	Refrigerated, room temperature, or frozen	None	
Boron, Urine	Random	6 mL	Refrigerated	None	Collect urine in a trace metal-free or acid-washed plastic container. Submit specimen in trace element-free transport tubes.
Bretylum, Urine	Random	2 mL	Room temperature	None	
Buprenorphine and Metabolites - Confirmation/ Quantitation - Urine	Random	2 mL	Room temperature	None	
Buspiron, Urine	Recommend peak collection at 40–90 minutes post dose	4 mL	Room temperature	None	
Butabarbital, Urine	Random	2 mL	Refrigerated	None	
Butorphanol, Urine—Screen with Reflex to Confirmation / Quantitation	Random	2 mL	Refrigerated	None	
Cadmium Exposure Panel—OSHA	Collect at beginning of work shift.	β-2-Microglobulin: 3 mL Cadmium: Two 4 mL aliquots in trace element-free tubes Creatinine: 3 mL	Frozen and refrigerated	β-2-Microglobulin aliquot: Adjust pH to 6–8 with 1M HCl or 5% NaOH. Freeze immediately. Cadmium aliquot: Add 0.1 mL of 12M HNO ₃ to aliquot. Ship refrigerated. Creatinine aliquot: No pH adjustment. Ship refrigerated.	To avoid contamination, collect specimens at the beginning of work shift. Blood and urine should be collected the same day. Label each aliquot with appropriate test name.
Cadmium, Urine	Random or 24-hour	Two 4 mL aliquots	Refrigerated, room temperature, or frozen	None if tested within 14 days of collection.	Collect in plastic container. Refrigerate 24-hour specimen during collection. Mix well. Submit specimen in two trace element-free transport tubes.
Calcium, Urine	Random or 24-hour	3 mL	Refrigerated	Adjust pH to 1.5–2 by adding 6M HCl.	Refrigerate 24-hour specimen during collection. Mix well.
Carbamazepine—10,11 Epoxide, Urine	Random	2 mL	Refrigerated	None	
Carisoprodol and Metabolite, Urine	Random	2 mL	Refrigerated, room temperature, or frozen	None	
Carnitine, Free and Total, Urine	Random	5 mL	Critical frozen	None	Freeze specimen immediately.
Carnitine, Free, Urine	Random	5 mL	Critical frozen	None	Freeze specimen immediately.
Carnitine, Total, Urine	Random	5 mL	Critical frozen	None	Freeze specimen immediately.
Catecholamines Fractionated by LC-MS/MS, Urine Free	Random or 24-hour	4 mL	Refrigerated	Stability enhanced by adjusting pH to 2-3 with 6M HCl.	Refrigerate 24-hour specimen during collection. Mix well.
Chloride, Urine	Random or 24-hour	1 mL	Refrigerated	None	Refrigerate 24-hour specimen during collection. Mix well.
Chromium, Urine	Random or 24-hour	Two 4 mL aliquots	Refrigerated, room temperature, or frozen	None if tested within 14 days of collection.	Collect in plastic container. Refrigerate 24-hour specimen during collection. Mix well. Submit specimen in two trace element-free transport tubes.
Citric Acid, Urine	Random or 24-hour	4 mL	Refrigerated	Adjust pH to ≤2 by adding 6M HCl.	Refrigerate 24-hour specimen during collection. Mix well.
Clonidine, Urine	Random	1 mL	Refrigerated	None	
Cobalt, Urine	Random or 24-hour	Two 4 mL aliquots	Refrigerated, room temperature, or frozen	None if tested within 14 days of collection.	Collect in plastic container. Refrigerate 24-hour specimen during collection. Mix well. Submit specimen in two trace element-free transport tubes.
Copper, Urine	Random or 24-hour	Two 4 mL aliquots	Refrigerated, room temperature, or frozen	None if tested within 14 days of collection.	Collect in plastic container. Refrigerate 24-hour specimen during collection. Mix well. Submit specimen in two trace element-free transport tubes.

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Test Name	Collection Time	Aliquot	Transport Temperature	Preservative	Additional Information
Cortisol Urine Free by LC-MS/MS	Random or 24-hour	4 mL	Refrigerated	None	Refrigerate 24-hour specimen during collection. Mix well.
Cortisol/Cortisone Urine Free by LC-MS/MS	Random or 24-hour	4 mL	Refrigerated	None	Refrigerate 24-hour specimen during collection. Mix well.
Cotinine Screen, Urine	Random	4 mL	Refrigerated	None	
C-Peptide, 24-Hour Urine	Random or 24-hour	2 mL	Frozen	None	Refrigerate 24-hour specimen during collection. Mix well.
Creatine Disorders Panel, Urine	Random or timed	2 mL	Frozen	None	Freeze specimen immediately. Clinical information is needed for appropriate interpretation: complete Biochemical Genetics Patient History Form and submit with specimen.
Creatine, Urine	Random	2 mL	Frozen	None	Freeze specimen immediately.
Creatinine Clearance, Urine	24-hour	3 mL	Refrigerated	None	Refrigerate 24-hour specimen during collection. Mix well. Also required: 1 mL plasma or serum, refrigerated collected within 48 hours of urine collection.
Creatinine, 24-Hour Urine	Random or 24-hour	3 mL	Refrigerated	None	Refrigerate 24-hour specimen during collection. Mix well. Also acceptable: Specimens previously preserved with 6M HCl, boric acid, or 5% NaOH.
Cresols, Urine	Random	3 mL	Refrigerated	None	
Cyclic AMP Nephrogenous	Random or timed	5 mL	Frozen	None	Also required: 1 mL plasma, frozen. Separate plasma from cells and freeze ASAP
Cyclic AMP Urine	Random or 24-hour	5 mL	Frozen	Add 1 g boric acid/100 mL urine.	Refrigerate 24-hour specimen during collection. Mix well.
Cyclobenzaprine (Flexeril), Urine	Random	4 mL	Room temperature	None	
Cystine Quantitative, Urine	Timed or 24-hour	Two 4 mL aliquots	Critical frozen	None	Refrigerate timed or 24-hour specimen during collection. Freeze specimen immediately. Clinical information is needed for appropriate interpretation: complete Biochemical Genetics Patient History Form and submit with specimen.
Cystinuria Panel	Random	Two 4 mL aliquots	Critical frozen	None	Freeze specimen immediately. Clinical information is needed for appropriate interpretation: complete Biochemical Genetics Patient History Form and submit with specimen.
Cytomegalovirus by PCR	Random	1 mL	Frozen	None	Transfer to a sterile container and freeze immediately.
Darvocet, Urine	Random	2 mL	Refrigerated	None	
Deoxyypyridinoline Crosslinks, Urine	First-morning void is preferred.	3.5 mL	Frozen	None	
Diazoxide, Urine	Random	2 mL	Refrigerated	None	
Diphenhydramine, Urine	Random	2 mL	Room temperature	None	
Dipyridamole, Urine	Random	1 mL	Refrigerated	None	
Diuretic Survey, Urine	Random	10 mL	Refrigerated or frozen	None	
Drug Screen (Nonforensic), Urine, Qualitative	Fresh random urine	25 mL	Refrigerated	None	
Drugs of Abuse Confirmation/Quantitation, Urine	Random	4 mL	Room temperature	None	Multiple tests available.
Drugs of Abuse Panel, Urine—Screen Only	Random	4 mL	Refrigerated	None	Multiple tests available.
Drugs of Abuse Panel, Urine—Screen with Reflex to Confirmation/Quantitation	Random	Two 4 mL aliquots	Refrigerated	None	Multiple tests available.
Dyazide, Urine	Random	4 mL	Room temperature	None	
Dyphylline Quantitative, Urine	Random	1 mL	Refrigerated	None	
Ehlers-Danlos Syndrome Type VI Screen	First-morning void is preferred or random	4 mL	Frozen	None	
Electrolytes, Urine	Random or 24-hour	1 mL	Refrigerated	None	Refrigerate 24-hour specimen during collection. Mix well.
Ephedrine, Urine	Random	1 mL	Refrigerated	None	
Estronex Profile	First morning void	13 mL	Critical frozen	None	Order kit prior to collection. Submit specimen in estronex tube.
Ethanol, Urine, Qualitative—Medical	Fresh random urine	10 mL	Refrigerated	None	Use a tightly sealed container for storage and transport.
Ethyl Glucuronide, Urine—Screen with Reflex to Confirmation/Quantitation	Random	3 mL	Refrigerated	None	
Fat, Urine Qualitative	Random	4 mL	Refrigerated	None	
Fentanyl and Metabolite—Confirmation/Quantitation—Urine	Random	4 mL	Room temperature	None	
Flunitrazepam and Metabolites, Urine—Screen with Reflex to Confirmation/Quantitation	Random	3 mL	Refrigerated	None	

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Fluoride Quantitative, Urine	Random	6 mL	Refrigerated	None	Collect sample in a trace metal-free or acid-washed plastic container. Submit in trace element-free transport tubes.
Formic Acid, Urine	Random	5 mL	Room temperature	None	Collect urine prior to the last shift of the work week.
Furosemide Quantitative, Urine	Random	1 mL	Room temperature	None	Submit specimen in an Amber Transport Tube.
Gabapentin Quantitative, Urine	Random	1 ml	Refrigerated, room temperature, or frozen	None	
Gamma-Hydroxybutyric Acid, Urine—Screen with Reflex to Confirmation/ Quantitation	Random	5 mL	Refrigerated, room temperature, or frozen	None	Transfer urine to one transport container.
Glucose, Urine	Random or 24-hour	4 mL	Refrigerated or frozen	None	Refrigerate 24-hour specimen during collection. Mix well.
Glutaryl carnitine Quantitative, Urine	Random	2.5 mL	Critical frozen	None	Freeze specimen immediately. Clinical information is needed for appropriate interpretation: complete Biochemical Genetics Patient History Form and submit with specimen.
Gold, Urine	Random	1.0 mL	Refrigerated	None	Collect sample in a trace metal-free or acid-washed plastic container.
Heavy Metals Panel 3, Urine with Reflex to Arsenic Fractionated	Random or 24-hour	Two 4 mL aliquots	Refrigerated, room temperature, or frozen	None if tested within 14 days of collection.	Collect in plastic container. Refrigerate 24-hour specimen during collection. Mix well. Submit specimen in two trace element-free transport tubes.
Heavy Metals Panel 4, Urine with Reflex to Arsenic Fractionated	Random or 24-hour	Two 4 mL aliquots	Refrigerated, room temperature, or frozen	None if tested within 14 days of collection.	Collect in plastic container. Refrigerate 24-hour specimen during collection. Mix well. Submit specimen in two trace element-free transport tubes.
Heavy Metals Panel 6, Urine with Reflex to Arsenic Fractionated	Random or 24-hour	Two 4 mL aliquots	Refrigerated, room temperature, or frozen	None if tested within 14 days of collection.	Collect in plastic container. Refrigerate 24-hour specimen during collection. Mix well. Submit specimen in two trace element-free transport tubes.
Hemoglobin, Urine	Random	4 mL	Frozen or refrigerated	None	Centrifuge and separate urine from cells and other sediment.
Hemosiderin, Urine	First morning void is preferred.	4 mL	Frozen	None	Mix well.
Heroin, Urine—Screen with Reflex to Confirmation/ Quantitation	Random	4 mL	Critical frozen	None	
Hippuric Acid, Urine	Collect at end of shift.	4 mL	Refrigerated	None	
Histamine, Urine	Random or 24-hour	4 mL	Critical frozen	None	Collect in plastic container. Refrigerate 24-hour specimen during collection. Mix well.
Histoplasma Antigen Detection EIA, Urine	Random	2 mL	Refrigerated	None	
Homocystine Quantitative, Urine	Random or 24-hour	5 mL	Frozen	None	Refrigerate 24-hour specimen during collection. Mix well.
Homovanillic Acid (HVA), Urine	Random or 24-hour	4 mL	Refrigerated	None	Refrigerate 24-hour specimen during collection. Mix well.
Hydrocarbon and Oxygenated Volatiles, Urine	Random	2 mL	Frozen	None	
Hydrochlorothiazide, Urine	Random	1 mL	Refrigerated, room temperature, or frozen	None	
Indicans, Urine Qualitative	Random	Two 4 mL aliquots	Frozen	None	
Iodine, Urine	Random or 24-hour	Two 4 mL aliquots	Refrigerated	None	Collect in plastic container. Refrigerate 24-hour specimen during collection. Mix well. Submit specimen in two trace element-free transport tubes.
Ipecac Use Markers, Urine—Screen with Reflex to Confirmation/ Quantitation	Random	2 mL	Refrigerated, room temperature, or frozen	None	
Iron, 24-Hour Urine	24-hour	10 mL	Refrigerated	None	Collect in plastic container with no metal cap or glued insert. Refrigerate 24-hour specimen during collection. Mix well.
Iron, Random Urine	Random	2 mL	Refrigerated	None	Collect in plastic container.
Kappa Free Light Chains (Bence Jones Protein), Quantitative, Urine	24-hour	Two 4 mL aliquots	Refrigerated	None	Refrigerate 24-hour specimen during collection. Mix well.
Kidney Stone Risk Panel II, Urine	24-hour 4 separate aliquots	Four 4 mL aliquots.	Frozen	1st aliquot: Dispense 4 mL of specimen into the sulfamic acid tube. Mix well, then freeze. 2nd aliquot: Dispense 4 mL of specimen into the sodium carbonate tube. Mix well, then freeze. 3rd aliquot: Dispense 4 mL of specimen into an unpreserved tube. Mix well, then freeze. 4th aliquot: Dispense 4 mL of specimen into an unpreserved tube. Mix well, then freeze.	Refrigerate 24-hour specimen during collection. Mix well. Use kidney stone/super saturation urine collection kit.

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Kidney Stone Risk Panel, Urine	24-hour, 4 separate aliquots	Four 4 mL aliquots.	Frozen	1st aliquot: Dispense 4 mL of specimen into the sulfamic acid tube. Mix well, then freeze. 2nd aliquot: Dispense 4 mL of specimen into the sodium carbonate tube. Mix well, then freeze. 3rd aliquot: Dispense 4 mL of specimen into an unpreserved tube. Mix well, then freeze. 4th aliquot: Dispense 4 mL of specimen into an unpreserved tube. Mix well, then freeze.	Refrigerate 24-hour specimen during collection. Mix well. Use kidney stone/supersaturation urine collection kit.
Lambda Free Light Chains (Bence Jones Protein), Quantitative, Urine	24-hour	Two 4 mL aliquots	Refrigerated	None	Refrigerate 24-hour specimen during collection. Mix well.
Lead, Urine	Random or 24-hour	Two 4 mL aliquots	Refrigerated, room temperature, or frozen	None if tested within 14 days of collection.	Collect in plastic container. Refrigerate 24-hour specimen during collection. Mix well. Submit specimen in two trace element-free transport tubes.
Leflunomide (Teriflunomide), Urine	Random	1 mL	Refrigerated, room temperature, or frozen	None	
Legionella pneumophila Antigen, Urine	Random	4 mL	Refrigerated	None	
Lidocaine and Metabolite, Urine	Random	1 mL	Refrigerated	None	
Lipase, Urine	Timed or 24-hour	10 mL	Refrigerated	If pH is <6, adjust pH to 6 by adding 5% NaOH (approximately 2 mL per liter). Mix well.	Refrigerate timed or 24-hour specimen during collection. Amylase is not stable in acidified samples (pH <6) and decreases of up to 30% may occur.
Loxapine, Urine	Random	3 mL	Room temperature	None	Protect from light. Submit specimen in an trace element-free transport tubes.
LSD, Urine—Screen with Reflex to Confirmation/ Quantitation	Random	2 mL	Refrigerated	None	Protect from light. Submit specimen in an amber transport tube.
Lysozyme, Urine	Random	3 mL	Refrigerated or frozen	None	
Magnesium, Urine	Random or 24-hour	4 mL	Refrigerated	Adjust pH to 1 by adding 6M HCl.	Refrigerate 24-hour specimen during collection. Mix well.
Manganese, Urine	Random or 24-hour	Two 4 mL aliquots	Refrigerated	None if tested within 14 days of collection.	Collect in plastic container. Refrigerate 24-hour specimen during collection. Mix well. Submit specimen in two trace element-free transport tubes.
Melanin, Urine	Random	4 mL	Critical frozen	None	Protect from strong light. Submit specimen in an amber transport tube.
Meperidine and Metabolite—Confirmation/ Quantitation—Urine	Random	2 mL	Refrigerated	None	
Mercury, Urine	Random or 24-hour	Two 4 mL aliquots	Refrigerated, room temperature, or frozen	None if tested within 14 days of collection.	Collect in plastic container. Refrigerate 24-hour specimen during collection. Mix well. Submit specimen in two trace element-free transport tubes.
Metanephrines Fractionated by HPLC-MS/ MS, Urine	Random or 24-hour	4 mL	Refrigerated or frozen	Stability enhanced by adjusting pH to 2–3 with 6M HCl.	Refrigerate 24-hour specimen during collection. Mix well.
Metformin Quantitation, Urine	Random	1 mL	Refrigerated	None	
Methadone and Metabolite—Confirmation/ Quantitation—Urine	Random	4 mL	Room temperature	None	
Methaqualone Quantitation, Urine	Random	2 mL	Refrigerated	None	
Metharbital and Metabolite, Urine	Random	2 mL	Room temperature	None	
Methocarbamol, Urine	Random	1 mL	Refrigerated	None	
Methylhippuric Acid, Urine	Collect specimen at end of shift.	4 mL	Refrigerated	None	
Methylmalonic Acid (MMA) Quantitation, Urine	Random or 24-hour	4 mL	Frozen	None	Refrigerate 24-hour specimen during collection. Freeze aliquot immediately.
Methylphenidate and Metabolite—Confirmation/ Quantitation—Urine	Random	2 mL	Refrigerated	None	
Methyprylon, Urine	Random	2 mL	Room temperature	None	
Metoprolol (Lopressor), Urine	Random	2 mL	Refrigerated	None	
Microalbumin, Urine	Random, timed, or 24-hour	1 mL	Refrigerated	None	Refrigerate 24-hour specimen during collection. Mix well.
Mucopolysaccharides Screen—Electrophoresis and Quantitation, Urine	Morning void preferred	20 mL	Frozen	None	Freeze specimen immediately.
Mucopolysaccharides, Quantitative, Urine	Morning void preferred	10 mL	Frozen	None	Freeze specimen immediately.
Mucopolysaccharidosis Type 1, NRE (Sensi- Pro) Quantitative, Urine	Morning void preferred	2 mL	Frozen	None	Freeze specimen immediately.

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Mucopolysaccharidosis Type 1, Total HS and NRE (Sensi-Pro) Quantitative, Urine	Morning void preferred	2 mL	Frozen	None	Freeze specimen immediately.
Myoglobin, Urine	Random or 24-hour	1 mL	Refrigerated	Adjust pH to 8–9 by adding 10% Na ₂ CO ₃ .	Refrigerate 24-hour specimen during collection. Mix well.
Nalbuphine, Urine—Screen with Reflex to Confirmation/ Quantitation	Random	2 mL	Refrigerated	None	
Naphthalene and Metabolite, Urine	Random	6 mL	Refrigerated	None	Submit in one transport container; ensure that container remains tightly sealed.
Naproxen, Urine	Random	1 mL	Refrigerated	None	
Nickel, Urine	Random or 24-hour	Two 4 mL aliquots	Refrigerated, room temperature, or frozen	None if tested within 14 days of collection.	Collect in plastic container. Refrigerate 24-hour specimen during collection. Mix well. Submit specimen in two trace element-free transport tubes.
Nicotine and Metabolites, Urine	Random	4 mL	Room temperature	None	
Nitrazepam, Urine	Random	2 mL	Room temperature	None	
Nitrogen, Total, Urine	24-hour required	10 mL	Refrigerated	None	Refrigerate 24-hour specimen during collection. Mix well.
NMP22	Single void between midnight and noon	5 mL	Frozen	Add urine immediately to NMP22 Urine Stabilizer vial.	Order NMP22 Urine Stabilizer Vial before collection. Stabilized specimen should be blue/ green in color
N-Telopeptide, Cross-Linked, Urine	24-hour or second-morning void	1 mL	Frozen	None	Refrigerate 24-hour specimen during collection. Mix well.
Opiates—Confirmation/ Quantitation—Urine	Random	4 mL	Room temperature	None	
Opiates, Screen Only, Urine	Random	4 mL	Room temperature	None	
Opiates, Screen with Reflex to Confirmation, Urine	Random	4 mL	Room temperature	None	
Organic Acids, Urine	Random	10 mL	Critical frozen	None	Freeze specimen immediately. Clinical information is needed for appropriate interpretation: complete Biochemical Genetics Patient History Form and submit with specimen.
Orotic Acid and Orotidine, Urine	First-morning void preferred or random	2 mL	Critical frozen	None	Freeze specimen immediately.
Osmolality, Urine	Random	1 mL	Frozen	None	
Ova and Parasite Exam, Body Fluid or Urine	Random	4 mL	Refrigerated	None	
Oxalate, Urine	24-hour	4 mL	Refrigerated	Option 1: Adjust pH to 1.5–2 by adding 6M HCl. Transfer 4 mL aliquot to an standard transport tube. Option 2: Transfer 4 mL aliquot from the well-mixed 24-hour urine collection to an standard transport tube with 12 mg sulfamic acid.	Refrigerate 24-hour specimen during collection. Mix entire collection (24-hour or random) in one container.
Oxycodone/Oxymorphone Screen Only, Urine	Random	4 mL	Room temperature	None	
Oxycodone/Oxymorphone Screen with Reflex to Confirmation, Urine	Random	4 mL	Room temperature	None	
Pain Management Drug Panel by High- Resolution Time-of-Flight Mass Spectrometry and Enzyme Immunoassay, Urine	Random	Two 4 mL aliquots	Refrigerated	None	
Paramethadione, Urine	Random	2 mL	Room temperature	None	
Parathion, Urine	Random	4 mL	Critical frozen	None	
Paroxetine Quantitative, Urine	Random	1 mL	Refrigerated, room temperature, or frozen	None	
PCA3—Prostate Cancer Biomarker	Random. Collect according to PCA3 specimen collection instructions.	Two 2 mL aliquots	Frozen	Transfer 2 mL of urine into each of two GenProb APTIMA tubes.	PCA3 urine collection kit. Ship Monday–Wednesday only.
Pentachlorophenol, Urine	Collect before the last shift of the work week.	6 mL	Refrigerated	None	
Phenacemide, Urine	Random	2 mL	Room temperature	None	
Phenazopyridine, Urine	Random	2 mL	Room temperature	None	

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Test Name	Collection Time	Aliquot	Transport Temperature	Preservative	Additional Information
Phenmetrazine, Urine	Random	1 mL	Refrigerated	None	
Phenol Exposure, Urine	Random	4 mL	Refrigerated	None	Urine collected at end of work shift.
Phenothiazines, Urine—Screen with Reflex to Confirmation/Quantitation	Random	4 mL	Refrigerated	None	
Phenylpropanolamine, Urine	Random	1 mL	Refrigerated	None	
Phosphorus, Urine	Random or 24-hour	3 mL	Frozen	Adjust pH to 1.5–2 by adding 6M HCl	Refrigerate 24-hour specimen during collection. Mix well.
Pipecolic Acid, Urine	First morning void preferred or random	1 mL	Frozen		Clinical information is needed for appropriate interpretation: complete Biochemical Genetics Patient History Form and submit with specimen.
Piroxicam (Feldene), Urine	Random	1 mL	Refrigerated	None	Protect from strong light. Submit specimen in two amber transport tubes.
Porphobilinogen (PBG), Urine	Random or 24-hour	Two 4 mL aliquots	Frozen	None	Refrigerate 24-hour specimen during collection. Mix well. Protect from strong light. Submit specimen in two amber transport tubes.
Porphyryns and Porphobilinogen (PBG), Urine	Random or 24-hour	Two 4 mL aliquots	Frozen	None	Refrigerate 24-hour specimen during collection. Mix well. Protect from strong light. Submit specimen in two amber transport tubes.
Porphyryns, Fractionation and Quantitation, Urine	Random or 24-hour	4 mL	Frozen	None	Refrigerate 24-hour specimen during collection. Mix well. Protect from strong light. Submit specimen in two amber transport tubes.
Potassium, Urine	Random or 24-hour	1 mL	Refrigerated	None	Refrigerate 24-hour specimen during collection. Mix well.
Prazosin, Urine	Random	3 mL	Refrigerated	None	
Pregabalin, Urine	Random	1 mL	Refrigerated, room temperature, or frozen	None	
Promazine, Urine	Random	4 mL	Room temperature	None	Protect from strong light. Submit specimen in an amber transport tubes.
Promethazine Quantitative, Urine	Random	4 mL	Room temperature	None	Protect from strong light. Submit specimen in an amber transport tubes.
Propylene Glycol, Urine	Random	4 mL	Room temperature	None	
Protein, Total, Urine	Random or 24-hour	4 mL	Refrigerated	None	Refrigerate 24-hour specimen during collection. Mix well.
Pseudoephedrine, Urine	Random	1 mL	Refrigerated	None	
Pyridinium Crosslinks (Total)	First-morning void	3.5 mL	Frozen	None	
Pyridinoline and Deoxypyridinoline by HPLC	First-morning void	Two 4 mL aliquots	Frozen	None	
Quinine, Urine	Random	1 mL	Refrigerated	None	
Selenium, Urine	Random or 24-hour	Two 4 mL aliquots	Refrigerated, room temperature, or frozen	None if tested within 14 days of collection.	Collect in plastic container. Refrigerate 24-hour specimen during collection. Mix well. Submit specimen in two trace element-free transport tubes.
Silicon, Urine	Random	6 mL	Refrigerated	None	Collect in a trace metal-free or acid-washed container
Silver, Urine	Random	1 mL in foil-wrapped trace element-free transport tube	Refrigerated	None	Collect in a trace metal-free container. Protect from strong light. Submit specimen in a foil-wrapped trace element-free transport tube.
Sodium, Urine	Random or 24-hour	1 mL	Refrigerated	None	Refrigerate 24-hour specimen during collection. Mix well.
Specific Gravity, Urine	Random	10 mL	Refrigerated	None	
Streptococcus pneumoniae Antigen, Urine	Random	4 mL	Refrigerated or frozen	None	
Strychnine, Quantitative, Urine	Random	3 mL	Room temperature	None	
Succinylacetone, Quantitative, Urine	First-morning void is preferred.	1 mL	Critical frozen	Freeze immediately	Clinical information is needed for appropriate interpretation: complete Biochemical Genetics Patient History Form and submit with specimen.
Sulfate, Urine	24-hour	4 mL	Critical frozen	None	Refrigerate 24-hour specimen during collection. Mix well.
Sulfonylurea Hypoglycemics Panel (Quantitative), Urine	Random	5 mL	Refrigerated or frozen	None	
Synthetic Cannabinoid Metabolites, Screen with Reflex to Confirmation, Urine	Random	5 mL	Refrigerated, room temperature, or frozen	None	
Tapentadol and Metabolite—Confirmation/Quantitation—Urine	Random	2 mL	Room temperature	None	

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Test Name	Collection Time	Aliquot	Transport Temperature	Preservative	Additional Information
Tellurium, Urine	Random or 24-hour	Two 4 mL aliquots	Refrigerated, room temperature, or frozen	None if tested within 14 days of collection.	Collect in plastic container. Refrigerate 24-hour specimen during collection. Mix well. Submit specimen in two trace element-free transport tubes.
Testosterone, Urine	24-hour	5 mL	Critical frozen	None	Refrigerate 24-hour specimen during collection. Mix well.
Thallium, Urine	Random or 24-hour	Two 4 mL aliquots	Refrigerated, room temperature, or frozen	None if tested within 14 days of collection.	Collect in plastic container. Refrigerate 24-hour specimen during collection. Mix well. Submit specimen in two trace element-free transport tubes.
Thiocyanate, 24-Hour Urine	24-hour	25 mL	Refrigerated	None	Refrigerate 24-hour specimen during collection. Mix well.
Thiocyanate, Random Urine	Random	20 mL	Refrigerated	None	
Tin Total, Urine	Random	4 mL	Room temperature	None	Collect urine in trace metal-free or acid-washed plastic container.
Titanium, Urine	Random	1 mL	Refrigerated	None	Collect urine in trace metal-free or acid-washed plastic container.
Tocainide Quantitation, Urine	Random	2 mL	Room temperature	None	
Tramadol and Metabolites—Confirmation/ Quantitation—Urine	Random	2 mL	Room temperature	None	
Tranlycypromine, Urine	Random	2 mL	Room temperature	None	
Tricyclic Antidepressants, Quantitative, Urine	Random	2 mL	Refrigerated	None	
Trifluoperazine, Urine	Random	4 mL	Room temperature	None	Protect from strong light. Submit specimen in an amber transport tubes.
Trihexyphenidyl, Urine	Random	4 mL	Room temperature	None	
Trimethadione and Metabolite Quantitation, Urine	Random	1 mL	Refrigerated	None	
Trimethoprim, Urine	Random	3 mL	Refrigerated	None	
Trimipramine and Metabolite Quantitation, Urine	Random	2 mL	Room temperature	None	
Urea Clearance	24-hour	3 mL	Refrigerated	None	Refrigerate 24-hour specimen during collection. Also required 1 mL serum or plasma, refrigerated.
Urea Nitrogen, Urine	Random or 24-hour	3 mL	Refrigerated	None	Refrigerate 24-hour specimen during collection. Mix well.
Uric Acid, Urine	Random or 24-hour	3 mL	Refrigerated	Adjust pH to >8 by adding 5% NaOH.	Refrigerate 24-hour specimen during collection. Mix well.
Urine Supersaturation Profile	24-hour	Four 4 mL aliquots	Frozen	1st aliquot: Dispense 4 mL of specimen into the sulfamic acid tube. Mix well, then freeze. 2nd aliquot: Dispense 4 mL of specimen into the sodium carbonate tube. Mix well, then freeze. 3rd aliquot: Dispense 4 mL of specimen into an unreserved tube. Mix well, then freeze. 4th aliquot: Dispense 4 mL of specimen into an unreserved tube. Mix well, then freeze.	Refrigerate 24-hour specimen during collection. Use kidney stone/supersaturation urine collection kit.
UroVysion FISH	Second-morning, clean-catch void	35 mL	Refrigerated	Mix voided urine 2:1 with Saccomanno or PreservCyt fixative and transfer to a screw-top transport tube.	UroVysion FISH Collection Kits fixative can be ordered through Client Services. Clinical information is needed for appropriate interpretation: complete Cytology Request Form and submit with specimen.
Vanadium Quantitation, Urine	Collect end of last shift at end of work week.	3 mL	Refrigerated, room temperature, or frozen	None	Collect in a trace metal-free or acid-washed container.
Vanillylmandelic Acid (VMA) and Homovanillic Acid (HVA), Urine	Random or 24-hour	4 mL	Refrigerated	None	Refrigerate 24-hour specimen during collection. Mix well.
Vanillylmandelic Acid (VMA), Urine	Random or 24-hour	4 mL	Refrigerated	None	Refrigerate 24-hour specimen during collection. Mix well.
Warfarin, Urine	Random	2 mL	Room temperature	None	
Zinc, Urine	Random or 24-hour	Two 4 mL aliquots	Refrigerated, room temperature, or frozen	None if tested within 14 days of collection.	Collect in plastic container. Refrigerate 24-hour specimen during collection. Mix well. Submit specimen in two Trace Element-Free Transport Tubes.
Zolpidem, Urine—Screen with Reflex to Confirmation/ Quantitation	Random	1 mL	Refrigerated, room temperature, or frozen	None	