





BD Vacutainer® Urine Collection System

Quick Reference Guide

Tube	Routine Urinalysis and Microbiology	Additional Urine Chemistries and Other Tests	Product Details	Benefits
	Routine Urinalysis Testing: Dipstick (manual/semi-automated or automated instrument) Visual macroscopic: Color and clarity (checking for obvious abnormalities in the color, clarity, and cloudiness) Chemistries: • Glucose, ketones, and specific gravity could point to diabetes • Blood, protein, and leukocytes could point to kidney problems or UTI • pH and nitrites could point to a UTI • Bilirubin and urobilinogen could point to liver problems	Amylase • Calcium • Chloride • Creatinine Magnesium • Microalbumin • Phosphorus Potassium • Pregnancy Test* • Urea • Uric acid Glucose: insufficient data (on-site validation required) Sodium & protein: not compatible (revised reference ranges may be advisable)	Urinalysis with Preservative (conical): 364992 • 16 x 100 mm evacuated tube • 8 mL draw volume (7 mL minimum and 8 mL maximum to maintain correct urine-to-preserved ratio) • Conventional/red & yellow closure • Non-mercuric preservative (Ethyl Paraben, Sodium Propionate, and Chlorhexidine)	• Stable for up to 72 hours without refrigeration (critical to prevent overgrowth of bacteria from contamination) • Mercury-free preservative (spray-dried) • Vacuum-drawn (avoids spills and pouring off) • Leak-proof transportation with pneumatic tube system • Sterile tube interior • Conical bottom for manual microscopy • Compatible with KOVA 12:1 ratio (note, Tech Services letter on-hand as required)
		Amylase • Calcium • Chloride • Creatinine Glucose • Magnesium • Microalbumin Phosphorus • Potassium • Pregnancy Test* Protein • Sodium • Urea • Uric acid	Urinalysis (round): 364979 • 16 x 100 mm evacuated tube • 10 mL draw volume • Conventional/yellow closure • No additive	• For urinalysis within 2 hours of collection • Vacuum-drawn (avoids spills and pouring off) • Leak-proof transportation with pneumatic tube system • Sterile tube interior
	Microscopy Testing: Sediment analysis (manual or automated instrument) • Identify formed elements: Cells (RBC/WBC/epithelial), bacteria, crystals, and casts to screen for kidney or other serious disease states • High white cell counts may also indicate an infection, which may lead to reflex testing (culture & sensitivity)	No data on file, on-site validation required: Drug/Toxicology Tests • Porphyrins Body Fluids Analysis • Osmolality • Cytology Serology • Myoglobin	Urinalysis (conical): 364980 • 16 x 100 mm evacuated tube • 8 mL draw volume • Conventional/yellow closure • No additive	• For urinalysis within 2 hours of collection • Vacuum-drawn (avoids spills and pouring off) • Leak-proof transportation with pneumatic tube system • Sterile tube interior • Conical bottom for manual microscopy • Compatible with KOVA 12:1 ratio (note, Tech Services letter on-hand as required)
	Microbiology Testing Identify presence of bacteria (UTIs) • Culture: Growing organisms on culture media • Sensitivity: Identifying drugs to which the bacteria are susceptible	Culture & Sensitivity Only	Culture & Sensitivity: 364951 • 13 x 75 mm evacuated tube • 4 mL draw volume (3 mL minimum and 4 mL maximum to maintain correct urine to preservative ratio) • Conventional/gray closure • Non-mercuric preservative (Boric Acid, Sodium Formate, and Sodium Borate)	• Stable for up to 48 hours without refrigeration (critical to prevent overgrowth after collection or from contamination) • 4 mL draw reduces amount of urine needed • Buffered, non-mercuric preservative (note, non-buffered boric acid is known to kill off some strains of E.Coli which are responsible for ~80% of urinary tract infections¹) • Vacuum-drawn (avoids spills and pouring off) • Leak-proof transportation with pneumatic tube system • Sterile tube interior




*White paper on ICON II HCG Kit only (VS5892)

¹The effect of specimen processing delay on borate urine preservation, T. Gillespie, J. Fewster, R. G. Masterton, *J Clin Pathol* 1999; 52:95-98.

Manufacturing Materials

Item	Material	Preservative	Shelf Life (days)	Sterile Interior
Urine Cup Lid	Polyethylene	N/A	720	Yes
Urine Cup	Polypropylene	N/A	720	Yes
Transfer Straw	Holder - HDPE, Straw - Polystyrene	N/A	N/A	No
Urinalysis Tube w/ Preservative	Polyethylene Terephthalate	Ethyl Paraben, Sodium Propionate and Chlorhexidine	540	Yes
Urinalysis Tube	Polyethylene Terephthalate	N/A	Conical: 540, Round: 720	Yes
Culture & Sensitivity Tube	Polyethylene Terephthalate	Boric Acid, Sodium Formate and Sodium Borate	540	Yes

Order of Draw

Tube	Order	Preservative	Mix by Inverting
	1st	Boric Acid, Sodium Formate, and Sodium Borate	10x
	2nd	Ethyl Paraben, Sodium Propionate, and Chlorhexidine	10x
	3rd	N/A	0x



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Note: Products and packaging are Latex-free

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