



# Clinical Pathology Collection Tube Guide

## Preclinical Services

IDEXX BioAnalytics provides these specimen collection tubes at no charge. To request tubes or for any other questions contact Client Support Services at 1-800-669-0825 or [idxxbioanalytics@idexx.com](mailto:idxxbioanalytics@idexx.com)




Sample Type	<b>Serum*</b> Clinical Chemistry, Immunology, Endocrinology			<b>Whole Blood</b> Hematology, Fluids or Cytology	
Tube Types	 <div> <div> <b>SST-SERUM Separator Tube</b>            4 mL or 8 mL            Red cap with yellow ring, contains clot activator and gel barrier         </div> <div> <b>RTT-RED Top Tube</b>            4 mL or 9 mL            Red cap with black ring, only clot activator         </div> <div> <b>SST-MINI Serum Separator Tube</b>            0.8 mL            Gold top tube, clot activator and gel barrier         </div> </div>			 <div> <div> <b>LTT-LAVENDER Top Tube</b>            2 mL or 9 mL            EDTA anticoagulant            lavender cap with white ring         </div> <div> <b>LTT-MINI Lavender Top Tube</b>            0.5 mL            EDTA anticoagulant            lavender cap         </div> </div>	
Sample Handling	Gently invert tube 8 to 10 times after collection. Let sample clot for approximately ~20 minutes at room temperature. Centrifuge at 2,000 to 2,500 rcf for 10 to 15 minutes.			Fill tube to appropriate fill line. (Proper blood to anticoagulant ratio is important for accurate results.) Gently invert the tube 8 to 10 times to ensure thorough mixing of the sample and anticoagulant to prevent clotting. If collecting blood from one animal into multiple different tubes, fill LTT last to avoid contaminating other sample tubes with EDTA.	
Sample Storage	Draw off serum into a transport tube for storage and shipment. Label the tube with sample ID, collection date, and "serum." Store samples refrigerated at 2–8°C if shipping within 24 hours of collection. Otherwise, freeze samples in transport tubes at -20°C.			Refrigerate at 2–8°C. <b>Do not freeze.</b>	
Sample Shipping	Ship samples on cold packs or dry ice.			Ship samples on cold packs. Make sure tubes do not come in direct contact with cold packs during shipment.	

*Note: analyte stability depends on storage temperature and biological half-life.*



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Sample	Citrated Plasma Coagulation	Sample Transfer Tubes	Urinalysis and Urine Chemistry	Microbiology
Tube Types	 <p><b>BTT- BLUE Top Tube</b></p> <p><b>2.0 mL or 2.7 mL</b></p> <p>Light blue top with a black ring. sodium citrate anticoagulant (3.2%)</p>	 <p><b>WTT- WHITE Top Tube</b></p> <p><b>1.5 mL or 6 mL</b></p> <p>White cap with a black ring. Plain, non-additive, silicone-coated plastic tube</p>	 <p><b>WTT- WHITE Top Tube</b></p> <p><b>1.5 mL or 6 mL</b></p> <p>White cap with a black ring. Plain, non-additive, silicone-coated plastic tube</p>	<p>Refer to the Microbiology Sample Preparation and Handling Guide</p>
Sample Handling	<p>Fill tube to appropriate volume (proper blood to anticoagulant ratio is important for accurate results). Gently invert tube 10 times to prevent clotting. Centrifuge as soon as possible at 1500 rpm for 15 minutes. Pipette plasma into a sample transfer tube. Label the tube with sample ID, collection date and “citrated plasma.”</p>	<p>Label the tube with sample ID, collection date and sample type (ie. “serum”).</p>	<p>Fill the tube to appropriate volume needed for testing.</p>	
Sample Storage	<p>Freeze samples in transport tubes at -20°C.</p> <p><i>Note: analyte stability depends on storage temperature and biological half-life.</i></p>	<p>Refer to the sample handling, storage and shipment directions for the appropriate sample type.</p>	<p>Refrigerate at 2–8°C. <b>Do not freeze.</b></p>	
Sample Shipping	<p>Ship samples frozen on cold packs or dry ice.</p>		<p>Ship on cold packs.</p> <p>Make sure tubes do not come in direct contact with cold packs during shipment.</p>	



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Environmental Diagnostics	Real-time PCR	CellCheck Cell Line Authentication
Microbiology	Diagnostic Pathology	Stat-Myco Mycoplasma Detection
Microbiome		Sterility Testing
Preclinical Services		
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Hematology	Coagulation	Novel Biomarkers
Histology	Cytology & Fluid Analysis	Board-certified Pathologists

Client Support Services (US)

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