

Venous blood sampling

Order of draw and specimen handling

Order of draw ²¹	Colour code	Tube type	OR	Order of draw ²¹	Colour code	Tube type
Discard tubes		EST or other suitable tube*		Blood culture	 	Aerobic blood culture bottle Anaerobic blood culture bottle
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Order of draw ²¹	Colour code	Tube type	Recommended inversions	Minimum clotting time	Centrifugation conditions	
Coagulation tubes		Sodium citrate, plastic	3-4	n/a	2000-2500 g (RCF) for 10-15 min. at 18-25 °C	
Serum tubes, with or without separator		Serum with clot activator (silica particles)	5-6	60 min.	≤1300 g (RCF) for 10 min. at 18-25 °C	
		Serum thrombin	5-6	5 min.	≤1300 g (RCF) for 10 min. at 18-25 °C	
		BD RST (serum thrombin with gel)	5-6	5 min.	1500-2000 g (RCF) for 10min, 2000g (RCF) for 4 min, or 4000g (RCF) for 3 min at 23-27 °C	
		BD SST™ II Advance (serum with gel)	6	30 min.	1300-2000 g (RCF) for 10min. at 18-25 °C	
Heparin tubes, with our without separator		BD Barricor™	8	n/a	4000 x g (RCF) for 3min. 3000 x g (RCF) for 5 min. at 18–25 °C or alternative centrifugation conditions ²⁴	
		Lithium & sodium heparin	8-10	n/a	≤1300 g (RCF) for 10 min. at 18-25 °C	
		BD PST™ II (plasma with gel)	8-10	n/a	1300-2000 g (RCF) for 10 min. at 18-25 °C	
EDTA tubes, with or without separator		EDTA	8-10	n/a	n/a	
		PAXgene® DNA	8-10	n/a	n/a	
		Blood banking	8-10	n/a	≤1300 g (RCF) for 10 min. at 18-25 °C	
		BD PPT™ EDTA with gel	8-10	n/a	1100 g (RCF) for 10 min. at 18-25 °C	
Glucose		Fluoride	8-10	n/a	≤1300 g (RCF) for 10 min. at 18-25 °C	
Tubes with other additives		ACD	8-10	n/a	n/a	
		Trace elements with EDTA	8-10	n/a	≤1300 g (RCF) for 10 min. at 18-25 °C	
		Trace elements serum with clot activator (silica particles)	5-6	60 min.	1300 g (RCF) for 10 min. at 18-25 °C	
		BD CPT™ Sodium Citrate or Sodium Heparin	8-10	n/a	Citrate tube 1500-1800 g (RCF) for 20 min. at 18-25 °C Heparin tube 1500-1800 g (RCF) for 15 min. at 18-25 °C	
		BD™ P800	8-10	n/a	1100-1300 g (RCF) for 20 min. at 18-25 °C (8,5 mL tube) 1100-1300 g (RCF) for 10 min. at 18-25 °C (2 mL tube)	
		BD™ P100	8-10	n/a	2500 g (RCF) for 20 min. at 18-25 °C (8,5 mL tube) 1000-3000 g (RCF) for 10 min. at 18-25 °C (2 mL tube)	
		PAXgene® Blood ccfDNA Tube	8	n/a	1600-3000 g (RCF) for 15 min. at 15-25 °C	
		PAXgene® Blood RNA Tube	8-10	n/a	n/a	

IMPORTANT MIXING GUIDELINES

All BD Vacutainer® Tubes, except discard Tubes, require immediate mixing following collection. Insufficient mixing can result in inaccurate test results and the need to re-draw. Correct mixing technique is to gently invert (180° and back) each tube the recommended number of times shown in the recommended inversions column.

* Discard Tube is not required before blood collection for Anaerobic and Aerobic blood culture bottles.
n/a = not applicable