


























Venous blood sampling

Order of draw and specimen handling

Order of draw ¹	Colour code	Tube type	OR	Order of draw ¹	Colour code	Tube type
Discard tubes		EST or other suitable tube*			Blood culture	 



Order of draw ¹	Colour code	Tube type	Recommended inversions	Clotting time	Centrifugation conditions
Coagulation		Sodium citrate, plastic	3-4	n/a	2000-2500 g (RCF) for 10-15 min. at 18-25 °C ² or 3000 g (RCF) for 5 min. for some tests ⁴
Serum		Serum with clot activator (silica particles)	5-6	60 min.	≥1300 g (RCF) for 10 min. at 18-25 °C or 3000 g (RCF) for 5 min. for some tests ⁴
		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.	4000 g (RCF) for 3 min. or 2000 g (RCF) for 4 min. or alternative centrifugation conditions are available ^{3,4}
		BD SST™ II <i>Advance</i> (serum with gel)	6	30 min.	1300-2000 g (RCF) for 10 min. or 3000 g (RCF) for 5 min. at 18-25 °C ³
Heparin		BD Barricor™	8-10	n/a	4000 g (RCF) for 3 min or alternative centrifugation conditions are available ^{3,4}
		Lithium & sodium heparin	8-10	n/a	≥1300 g (RCF) for 10 min. at 18-25 °C or 3000 g (RCF) for 5 min. for some tests ⁴
		BD PST™ II (plasma with gel)	8-10	n/a	1300-2000 g (RCF) for 10 min. or alternative centrifugation conditions are available ^{3,4}
Haematology		EDTA	8-10	n/a	≥1300 g (RCF) for 10 min. at 18-25 °C
Nucleic acid		PAXgene® DNA	8-10	n/a	n/a
Crossmatch		Blood banking	8-10	n/a	≥1300 g (RCF) for 10 min. at 18-25 °C
PPT		BD PPT™ EDTA with gel	8-10	n/a	1100 g (RCF) for 10 min. at 18-25 °C
Glucose		Glucose	8-10	n/a	≥1300 g (RCF) for 10 min. at 18-25 °C or 3000 g (RCF) for 5 min. for some tests ⁴
Citrate		Sodium citrate, ESR, glass	8-10	n/a	n/a
		ACD	8-10	n/a	n/a
Trace elements		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
PBMC		BD CPT™ Sodium Citrate & Sodium Heparin	8-10	n/a	Citrate tube 1500 g (RCF) for 20 min. at 18-25 °C Heparin tube 1500 g (RCF) for 15 min. at 18-25 °C
Peptides		BD™ P800	8-10	n/a	≥1300 g (RCF) for 20 min. at 18-25 °C (8.5mL tube) or for 10 min. at 18-25 °C (2.0mL tube)
Proteins		BD™ P100	8-10	n/a	2500 g (RCF) for 20 min. at 18-25 °C (8.5mL tube) or 3000 g (RCF) for 10 min. at 18-25 °C (2.0mL tube)
Circulating, cell-free DNA		PAXgene® Blood ccfDNA tube	8	n/a	1900 g (RCF) for 15 min. at 15-25 °C for further sample purification see IFU
Nucleic acid		PAXgene® Blood RNA tube	8-10	n/a	n/a

* Discard tube is not required before blood collection for Anaerobic and Aerobic blood culture bottles.

n/a = not applicable

Centrifugation acceleration and deceleration time is not included, this must be added to the time stated. For fixed angle rotors, a longer centrifugation time may be required for the optimal development of the gel barrier.

1. Sequence for sample taking according to Clinical and Laboratory Standards Institute (CLSI): Collection of Diagnostic Venous Blood Specimens, 7th Edition, CLSI document GP41-Ed7 (ISBN 1-56238-812-6), Clinical and Laboratory Standards Institute, 940 West Valley Road, Suite 1400, Wayne, Pennsylvania 19087-1898 USA, 2017
2. Platelet-poor plasma (<10,000 Plt/μL)
3. BD White Paper VS7228: Performance of BD Vacutainer® SST™ II Advance Tubes at Four and Five Minute Centrifugation Times, 2004
4. BD White Paper VS9387-0US: Evaluation of Unified Centrifugation Conditions for a Range of BD Vacutainer® Blood Collection Tubes, 2018



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