

Venous blood sampling

Coagulation analysis

Sodium citrate

Trisodium citrate is used as an anticoagulant for coagulation investigations. It works as an anticoagulant by forming complexes with metal ions such as calcium, thereby inhibiting the coagulation cascade. Anticoagulation with trisodium citrate is reversible.

BD Vacutainer® Citrate Tubes contain buffered trisodium citrate in accordance with recommendations:

- 0.105 M or 0.109 M of buffered trisodium citrate solution, equivalent to 3.2% trisodium citrate
- 0.129 M of buffered trisodium citrate solution, equivalent to 3.8% trisodium citrate

Following blood collection, the blood to additive ratio will be 9:1.

BD Vacutainer® Citrate Tubes are also suitable for carrying out special test procedures such as the platelet function assay PFA-100®*.

Fill line marking

The significance of the correct ratio of blood to additive for coagulation samples is well documented.²⁷ The correct fill amount is critical for correct coagulation analysis. All BD Vacutainer® plastic coagulation Tubes have a mark indicating the minimum fill level.

BD Vacutainer® Plus Citrate Tube draw volume guide

Note: The Quantity of blood drawn into evacuated tubes varies with altitude, ambient temperature, barometric pressure, tube age, venous pressure and filling technique.

minimalaus užpildymo žyma
360 laipsnių, t. y. per visą
mėgintuvėlio diametrą,
išgraviruota ant mėgintuvėlio
korpuso

BD Vacutainer® Citrate Tubes

The plastic citrate tubes made from polyethylene terephthalate (PET) and polypropylene (PP) feature innovative tube geometry that minimises tube headspace and associated platelet activation to optimise activated partial thromboplastin time (APTT) monitoring of unfractionated heparin patients.

BD Vacutainer® Citrate Tubes are used worldwide and in many analytical coagulation systems:^{25,26}

- Clinically proven in multi-centre clinical trials for coagulation testing across all major patient populations.
- Evaluated with the most widely used coagulation analytical systems.

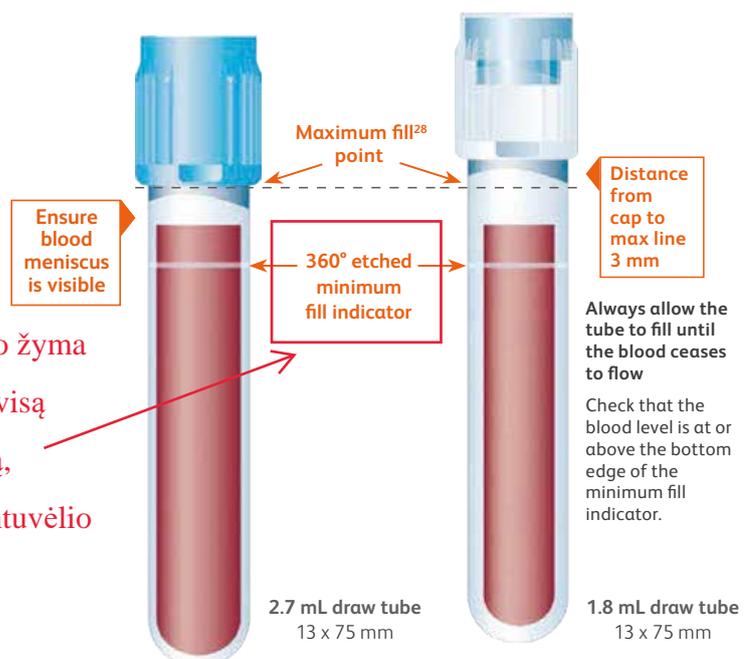


Image is for illustrative purposes only and is not actual size

* PFA-100 is a registered trade mark of Siemens.

Venous blood sampling

Coagulation analysis

Centrifugation conditions

For coagulation analyses, different plasma specifications can be obtained from the citrated blood:

- Platelet-poor plasma:
Plastic tubes: 2,000-2,500 g for 10-15 minutes at 18-25°C



BD Vacutainer® Citrate Tubes

Cat. no.	Draw volume (mL)	Size (mm)	Additive	Separator	Material	Label	Cap closure	Cap colour
363047	1.8	13 x 75	Trisodium citrate (0.109 M, 3.2%)	None	PET/PP	Paper	BD Hemogard™	
363097	1.8	13 x 75	Trisodium citrate (0.129 M, 3.8%)	None	PET/PP	Paper	BD Hemogard™	
1.5 368273	1.8	13 x 75	Trisodium citrate (0.109 M, 3.2%)	None	PET/PP	See thru	BD Hemogard™	
363093	1.8	13 x 75	Trisodium citrate (0.109 M, 3.2%)	None	PET/PP	Block	BD Hemogard™	
363048	2.7	13 x 75	Trisodium citrate (0.109 M, 3.2%)	None	PET/PP	Paper	BD Hemogard™	
363079	2.7	13 x 75	Trisodium citrate (0.129 M, 3.8%)	None	PET/PP	Paper	BD Hemogard™	
363095	2.7	13 x 75	Trisodium citrate (0.109 M, 3.2%)	None	PET/PP	Block	BD Hemogard™	
1.6 364305	2.7	13 x 75	Trisodium citrate (0.109 M, 3.2%)	None	PET/PP	See thru	BD Hemogard™	

All tubes are supplied in boxes of 100 units / cases of 1,000

Venous blood sampling

Serum analysis

Serum tubes, without separator

Serum tubes are available in glass and plastic (PET) variants. In glass tubes, the surface acts as a clot activator. In plastic tubes, silica particles are added as the clot activator. These tubes are labelled with the acronym CAT (clot activator tube).

Clotting times

The recommended minimum clotting time for the serum tubes is 60 minutes.

Centrifugation conditions

≤1300 g for 10 minutes at 18-25°C

Further information

Clinical and technical information is available on request.



BD Vacutainer® Serum Tubes

Cat. no.	Draw volume (mL)	Size (mm)	Additive	Separator	Material	Label	Cap closure	Cap colour
368492	2.0*	13 x 75	Silica (clot activator)	None	PET	Paper	BD Hemogard™	
368271	2.0*	13 x 75	Silica (clot activator)	None	PET	See thru	BD Hemogard™	
369032	4.0	13 x 75	Silica (clot activator)	None	PET	Paper	BD Hemogard™	
365904	4.0	13 x 75	Silica (clot activator)	None	PET	See thru	BD Hemogard™	
367624	5.0	13 x 75	No additive	None	Glass	Paper	BD Hemogard™	
1.11 367614	5.0	13 x 75	Silicone coated	None	Glass	Paper	BD Hemogard™	
368815	6.0	13 x 100	Silica (clot activator)	None	PET	Paper	BD Hemogard™	
367819	6.0	13 x 100	Silica (clot activator)	None	PET	See thru	BD Hemogard™	
367896	10.0	16 x 100	Silica (clot activator)	None	PET	Paper	BD Hemogard™	

All tubes are supplied in boxes of 100 units / cases of 1,000

*Partial-draw tube

Venous blood sampling

Serum analysis

BD Vacutainer® RST (Rapid Serum Tube)

This tube combines the advantages of a thrombin-based clot activator with a gel barrier, enabling rapid results and extended stability.

The main advantages of BD Vacutainer® Rapid Serum Tubes (RST) versus other serum tubes:

- High-quality serum production.²⁸
- Five-minute clotting time after the blood sample is taken.
- Reduced haemolysis, red cell hang-up and fibrin, compared to a comparator serum tube.²⁸
- Stable barrier between serum and clotted blood during transportation and storage, therefore better analyte stability.
- Workflow optimisation: short centrifugation time, sample processing and archiving in the primary tube.

Clotting times

The minimum recommended clotting time for BD Vacutainer® RST is 5 min between 23 and 27°C.



Centrifugation conditions

- 4,000 g for 3 minutes at 23-27°C
- 2,000 g for 4 minutes at 23-27°C
- 1,500-2,000 g for 10 minutes at 23-27°C

Further information

Clinical and technical information is available on request.

BD Vacutainer® RST Tubes

Cat. no.	Draw volume (mL)	Size (mm)	Additive	Separator	Material	Label	Cap closure	Cap colour
368774	5.0	13 x 100	Thrombin-based medical clotting agent	Gel	PET	Paper	BD Hemogard™	

All tubes are supplied in boxes of 100 units / cases of 1,000

BD Vacutainer® Thrombin Tubes (no separator)

The thrombin-based clot activator enables rapid clotting of the blood.

Clotting times

The minimum recommended clotting time for the thrombin tubes is 5 minutes.

Centrifugation conditions

- ≤1300 g for 10 minutes at 18-25°C

Cat. no.	Draw volume (mL)	Size (mm)	Additive	Separator	Material	Label	Cap closure	Cap colour
367817	4.8	13 x 75	Thrombin	None	PET	Paper	BD Hemogard™	
367811	6.0	13 x 100	Thrombin	None	PET	Paper	BD Hemogard™	

All tubes are supplied in boxes of 100 units / cases of 1,000

Venous blood sampling

Serum analysis

BD Vacutainer® SST™ II Advance Tubes

These tubes contain a gel barrier that separates the serum from the blood clot following centrifugation, preventing contamination of the serum. For example, in serum certain analytes such as potassium, phosphorus and glucose should be separated from the cells within a short time period - otherwise the results will be significantly impacted. Clinical evaluation of special chemistries such as therapeutic drugs, proteins, peptides, steroids and vitamins demonstrates a high degree of stability within the BD SST™ II Advance.^{29,30,31}

The main advantages of gel tubes versus non-gel tubes are:

- Stable barrier between serum and clotted blood during transportation and storage, leading to better analyte stability.
- Better sample quality.
- Workflow optimisation: short centrifugation time, sample processing and archiving in the primary tube.
- No requirement for secondary tubes, reducing the possibility of misidentification.

Clotting times

The minimum recommended clotting time for BD Vacutainer® SST™ II Advance Tubes is 30 minutes.

Centrifugation conditions

1,300-2,000 g for 10 minutes at 18-25 °C



Further information

Clinical and technical information is available on request.

Krešėjimo laikas - 30 min.

Venous blood sampling

BD Vacutainer® SST™ II Advance Tubes

Cat. no.	Draw volume (mL)	Size (mm)	Additives	Separator	Material	Label	Cap closure	Cap colour
366882	2.5*	13 x 75	Silica (clot activator)	Gel	PET	Paper	BD Hemogard™	
1.2 367957	3.5	13 x 75	Silica (clot activator)	Gel	PET	Paper	BD Hemogard™	
368498	3.5	13 x 75	Silica (clot activator)	Gel	PET	See thru	BD Hemogard™	
368965	3.5	13 x 75	Silica (clot activator)	Gel	PET	Paper	BD Hemogard™	
368879	4.0	13 x 100	Silica (clot activator)	Gel	PET	See thru	BD Hemogard™	
1.1 367955	5.0	13 x 100	Silica (clot activator)	Gel	PET	Paper	BD Hemogard™	
366566	5.0	13 x 100	Silica (clot activator)	Gel	PET	See thru	BD Hemogard™	
368968	5.0	13 x 100	Silica (clot activator)	Gel	PET	Paper	BD Hemogard™	
366444	6.0	16 x 100	Silica (clot activator)	Gel	PET	Paper	BD Hemogard™	
367953	8.5	16 x 100	Silica (clot activator)	Gel	PET	Paper	BD Hemogard™	
366644	8.5	16 x 100	Silica (clot activator)	Gel	PET	See thru	BD Hemogard™	
366468	8.5	16 x 100	Silica (clot activator)	Gel	PET	Paper	BD Hemogard™	

All tubes are supplied in boxes of 100 units / cases of 1,000

* Partial-draw tube

Venous blood sampling

Serum

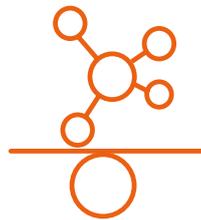
Turnaround time³²

Before centrifugation, serum samples require between 5 to 60 minutes to coagulate and several factors affect the process.



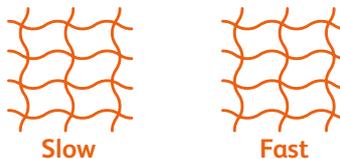
Sample quality³⁴⁻³⁹

- Serum is an acellular sample
- Coagulation processes increase the analytical variance
- Potassium levels are slightly elevated by the clotting process
- Long-term stability is high for the majority of analytes



Fibrin Formation⁴⁰

Inadequate clotting may result in fibrin formation during and after centrifugation, which may interfere with some tests.



Sample yield²²

With serum samples, 44.3% mean yield from whole blood volume can be harvested.



Serum or plasma? An old question waiting for new answers

"There is an ongoing debate on what type of sample a clinical laboratory should use. While serum is still considered the gold standard and remains the required sample matrix for some assays, laboratories must consider turnaround time, which is an important metric for laboratory performance and, more importantly, plays a critical role in patient care. In addition, a body of evidence emphasises the choice of plasma samples in order to prevent modifications of some measurements due to the coagulation process and related interferences. Advantages and disadvantages of serum and plasma are discussed on the basis of current literature and evidence. In addition, data are provided on the current utilisation of the matrix (serum or plasma) in Italy and in other countries. Finally, a rationale for a possible shift from serum to plasma is provided."⁴¹

Plasma

Turnaround time³³

The anticoagulation action of heparin allows for immediate centrifugation of the specimen.

Sample quality³⁴⁻³⁹

- Plasma contains residual cells
- Analytical variance is reduced
- Potassium levels are unaffected by anticoagulation
- Analyte stability is often shorter than in serum samples

Fibrin formation⁴⁰

Fibrin artefacts are generally not present in plasma samples. Cold storage can activate coagulation.

Sample yield²³

With plasma samples, 55.2% mean yield from whole blood volume can be harvested.

Venous blood sampling

Plasma analysis

Lithium Heparin/Sodium Heparin

BD Vacutainer® Plasma Tubes for clinical chemistry are available with spray-dried sodium heparin or lithium heparin additives. Heparin acts as an anticoagulant by creating a complex with antithrombin III. This complex inhibits thrombin and the activated factor X and thus prevents coagulation.

Optimal anticoagulation is achieved in these tubes by using 17 IU pharmaceutical-grade heparin per mL of blood. The lithium heparin in BD Vacutainer® Tubes is spray dried onto the inner walls to achieve the best possible solubility. For clinical chemistry, lithium heparin is generally preferred over sodium heparin.

Išdžiovintas purškiant - sausas priedas ant sienelių

Tube mixing

To avoid micro-clotting, mix the BD Vacutainer® Heparin Tube with 8-10 inversions immediately after the blood sample has been taken.



Centrifugation conditions

≤1300 g for 10 minutes at 18-25°C.

Further information

Clinical and technical information is available on request.

BD Vacutainer® Heparin Tubes

Cat. no.	Draw volume (mL)	Size (mm)	Additive	Separator	Material	Label	Cap closure	Cap colour
368494	2.0*	13 x 75	Lithium heparin	None	PET	Paper	BD Hemogard™	
368272	2.0*	13 x 75	Lithium heparin	None	PET	See thru	BD Hemogard™	
368884	4.0	13 x 75	Lithium heparin	None	PET	Paper	BD Hemogard™	
368496	4.0	13 x 75	Lithium heparin	None	PET	See thru	BD Hemogard™	
367869	4.0	13 x 75	Sodium Heparin	None	PET	Paper	BD Hemogard™	
368886	6.0	13 x 100	Lithium heparin	None	PET	Paper	BD Hemogard™	
368889	6.0	13 x 100	Lithium heparin	None	PET	See thru	BD Hemogard™	
367876	6.0	13 x 100	Sodium Heparin	None	PET	Paper	BD Hemogard™	
367526	10.0	16 x 100	Lithium heparin	None	PET	Paper	BD Hemogard™	
368480	10.0	16 x 100	Sodium Heparin	None	Glass	Paper	Conventional	

All tubes are supplied in boxes of 100 units / cases of 1,000

* Partial-draw tube

Venous blood sampling

Plasma analysis

BD Vacutainer® Barricor™ Plasma Blood Collection Tubes

BD Vacutainer® Barricor™ is a revolutionary blood collection tube that delivers a consistently fast, clean and high-quality plasma sample to enable the most accurate results.

The design complements the BD Vacutainer® Blood Collection Tubes, and continues the BD heritage of ensuring best practice in the collection, transportation and processing of blood samples.

BD Barricor™ product features have been designed to ensure optimal performance. The cutting-edge mechanical separator speeds up throughput and enables workflow optimisation by harnessing the power of plasma.



Accuracy

BD Barricor™ is an innovative technology that provides greater confidence in the accuracy of laboratory results across a broad range of analytes enabling clinicians to act on reliable and credible results to deliver cutting-edge care and service.

- Prolonged stability and reduced interference for enhanced therapeutic drug monitoring⁴²
- Longer stability of analytes versus current plasma gel separator tubes and reduced temperature sensitivity in storage⁴³



Quality

BD Barricor™ mechanical separator technology delivers a leading-edge collection and analytical process by eliminating separator artefacts that interfere with testing, or could lead to instrument downtime. This innovation helps deliver the highest diagnostic quality and patient care.

- Superior sample quality compared to plasma gel tubes – 47% fewer platelets count versus BD Vacutainer® PST™ II Tubes⁴⁵
- Positive impact on KPI such as haemolysis rate⁴⁶



Fast diagnosis

BD Barricor™ delivers a faster time-to-result for all patients with no clotting time and a reduction in centrifugation time of up to 7 minutes.

- Separation in 3 minutes at 4000g⁴⁴
- Reduction of turnaround time (TAT), allowing compliance with key performance indicators (KPI)



Efficiency

BD Barricor™ has been designed to ensure optimal performance across the sample and laboratory workflow, providing opportunities for improving the total cost of operations.

- Greater range of analytes can be tested in a single tube
- Mechanical separator eliminates the risk of gel contamination of the sampling probe; causing probe blockages, leading to analyser downtime and maintenance

Venous blood sampling

Plasma analysis

Tube mixing

To avoid micro-clotting, mix the BD Vacutainer® Barricor™ Tube with 8 inversions immediately after the blood sample has been taken.

Centrifugation conditions

4000 x g (RCF) for 3min. 3000 x g (RCF) for 5 min. at 18–25 °C or alternative centrifugation conditions.²⁴

For infectious disease testing, centrifuge at 3,000 g for 10 minutes.⁴⁷

See www.bd.com/ifu

Further information

Clinical and technical information is available on request.

BD Vacutainer® Barricor™ Tubes

2.3 mehaninis barjeras E. n. 2.3

1.14

Cat. no.	Draw volume (mL)	Size (mm)	Additive	Separator	Material	Label	Cap closure	Cap colour
365050	3	13 x 75	Lithium heparin	Mechanical separator*	PET	Paper	BD Hemogard™	
365054	3	13 X 75	Lithium heparin	Mechanical separator*	PET	See thru	BD Hemogard™	
365055	3	13 X 75	Lithium heparin	Mechanical separator*	PET	Block	BD Hemogard™	
365053	3.5*	13 X 100	Lithium heparin	Mechanical separator*	PET	Paper	BD Hemogard™	
365087	3.5*	13 x 100	Lithium heparin	Mechanical separator*	PET	Block	BD Hemogard™	
365049	4.5	13 x 100	Lithium heparin	Mechanical separator*	PET	Paper	BD Hemogard™	
365052	4.5	13 X 100	Lithium heparin	Mechanical separator*	PET	See thru	BD Hemogard™	
365051	4.5	13 X 100	Lithium heparin	Mechanical separator*	PET	Block	BD Hemogard™	
365081	5	13 X 100	Lithium heparin	Mechanical separator*	PET	See thru	BD Hemogard™	
365056	5.5	13 X 100	Lithium heparin	Mechanical separator*	PET	Paper	BD Hemogard™	
365057	5.5	13 X 100	Lithium heparin	Mechanical separator*	PET	See thru	BD Hemogard™	

All tubes are supplied in boxes of 100 units / cases of 1,000

* Partial-draw tube

Venous blood sampling

Plasma analysis

BD Vacutainer® PST™ II Tubes

These tubes contain a gel barrier and spray-dried lithium heparin additive. The inert barrier separates the plasma from the blood cells during centrifugation, preventing contamination of the plasma. For example, in plasma certain analytes such as potassium, phosphorus and glucose should be separated from the cells within a few hours, otherwise the results will be significantly impacted. Clinical evaluation of special chemistries such as therapeutic drugs, proteins, peptides, steroids and vitamins demonstrates a high degree of stability within BD PST™ II Tubes.⁴⁸⁻⁵⁰

The main advantages of gel tubes versus non-gel tubes are:

- Stable barrier between plasma and clotted blood during transportation and storage, therefore better analyte stability.
- Better sample quality.
- Workflow optimisation: short centrifugation time, sample processing and archiving in the primary tube.
- No requirement for secondary tubes, reducing the possibility of misidentification.



Effects of temperature

BD Vacutainer® PST™ II Tubes should be stored at 4-25°C and protected from direct sunlight during storage. Cooling of the tube by or during centrifugation can affect the movement. The optimum separation of sediment and plasma is achieved at a temperature of 20-25°C.

Tube mixing

To avoid micro-clotting, mix the BD Vacutainer® PST™ II Tube with 8-10 inversions immediately after the blood sample has been taken.

Centrifugation conditions

1,300-2,000 g for 10 minutes at 18-25°C.

Further information

Clinical and technical information is available on request.

BD Vacutainer® PST™ II Tubes

Cat. no.	Draw volume (mL)	Size (mm)	Additive	Separator	Material	Label	Cap closure	Cap colour
367374	3.0	13 x 75	Lithium heparin	Gel	PET	Paper	BD Hemogard™	
368497	3.0	13 x 75	Lithium heparin	Gel	PET	See thru	BD Hemogard™	
367376	4.5	13 x 100	Lithium heparin	Gel	PET	Paper	BD Hemogard™	
366567	4.5	13 x 100	Lithium heparin	Gel	PET	See thru	BD Hemogard™	
367378	8.0	16 x 100	Lithium heparin	Gel	PET	Paper	BD Hemogard™	

All tubes are supplied in boxes of 100 units / cases of 1,000

Venous blood sampling

Glucose analysis

Glucose and Lactate determination

BD Vacutainer® Glucose Stabilisation Tubes all contain a sodium fluoride antiglycolytic agent and are available with either potassium oxalate, disodium EDTA or sodium heparin anticoagulant.

Glucose values in unpreserved blood samples decrease quickly after collection as glucose is metabolised by the blood cells. The sodium fluoride additive stops the enzymatic activity of the glycolytic pathway.

HbA1c determination

One advantage of the Fluoride/EDTA tube over the Fluoride/Oxalate tube is that the HbA1c marker can be determined from the same tube, so there is no need to take an additional sample.

Tube mixing

To avoid micro-clotting, mix the BD Vacutainer® Glucose Tube with 8-10 inversions immediately after the blood sample has been taken.



Centrifugation conditions

≤1300 g for 10 minutes at 18-25°C

Further information

Clinical and technical information is available on request.

BD Vacutainer® Tubes for glucose and lactate determination

Cat. no.	Draw volume (mL)	Size (mm)	Additive	Separator	Material	Label	Cap closure	Cap colour
368920	2.0*	13 x 75	Sodium fluoride (2.5 mg/mL) / Potassium oxalate (2.0 mg/mL)	None	PET	Block	BD Hemogard™	
368520	2.0*	13 x 75	Sodium fluoride (1.5 mg/mL) / Disodium EDTA (3.0 mg/mL)	None	PET	Block	BD Hemogard™	
367933	2.0	13 x 75	Sodium fluoride (1.5 mg/mL) / Disodium EDTA (3.0 mg/mL)	None	PET	See thru	BD Hemogard™	
368921	4.0	13 x 75	Sodium fluoride (2.5 mg/mL) / Potassium oxalate (2.0 mg/mL)	None	PET	Paper	BD Hemogard™	
368521	4.0	13 x 75	Sodium fluoride (1.5 mg/mL) / Disodium EDTA (3.0 mg/mL)	None	PET	Paper	BD Hemogard™	
367764	5.0	13 x 75	Sodium fluoride (4.0 mg/mL) / Sodium heparin (281 U/mL)	None	Glass	Paper	BD Hemogard™	
368201	5.0	13 x 100	Sodium fluoride (2.5 mg/mL) / Potassium oxalate (2.0 mg/mL)	None	PET	Paper	BD Hemogard™	

All tubes are supplied in boxes of 100 units / cases of 1,000

* Partial-draw tube

1.7

Venous blood sampling

Haematology

EDTA

EDTA (ethylenediaminetetraacetic acid) salts are used to anticoagulate whole blood for haematological investigations, as the cellular components of the blood are particularly well preserved by EDTA. The anticoagulation is achieved by the EDTA forming complexes with metal ions such as calcium, therefore inhibiting the coagulation cascade. Anticoagulation with EDTA is irreversible.

The EDTA concentration in BD Vacutainer® Tubes is 1.8 mg/mL of whole blood, as recommended by the International Council Society of Haematology (ICSH).⁵¹ The ICSH recommends dipotassium EDTA salt (K₂EDTA) for haematological investigations. BD Vacutainer® plastic (PET) Tubes are available with spray dried K₂EDTA and K₃EDTA.

Išdžiovintas purškiant - sausas priedas ant sienelių



Tube mixing

To avoid micro-clotting, mix the EDTA tube with 8-10 inversions immediately after the blood sample has been taken.

Further information

Clinical and technical information is available on request.

BD Vacutainer® K₂EDTA Tubes

Cat. no.	Draw volume (mL)	Size (mm)	Additive	Separator	Material	Label	Cap closure	Cap colour
362072	3.0*	13 x 75	K ₂ EDTA	None	PET	Paper	BD Hemogard™	
1.4 368841	2.0*	13 x 75	K ₂ EDTA	None	PET	Paper	BD Hemogard™	
368274	2.0*	13 x 75	K ₂ EDTA	None	PET	See Thru	BD Hemogard™	
1.3 368856	3.0*	13 x 75	K ₂ EDTA	None	PET	Paper	BD Hemogard™	
368499	3.0*	13 x 75	K ₂ EDTA	None	PET	See Thru	BD Hemogard™	
368861	4.0	13 x 75	K ₂ EDTA	None	PET	Paper	BD Hemogard™	
367862	4.0	13 x 75	K ₂ EDTA	None	PET	See Thru	BD Hemogard™	
367864	6.0	13 x 100	K ₂ EDTA	None	PET	Paper	BD Hemogard™	
365900	6.0	13 x 100	K ₂ EDTA	None	PET	See Thru	BD Hemogard™	
1.12 367525	10.0	16 x 100	K ₂ EDTA	None	PET	Paper	BD Hemogard™	

All tubes are supplied in boxes of 100 units / cases of 1,000

* Partial-draw tube

Venous blood sampling

Haematology

EDTA-dependent pseudothrombocytopenia

Pseudothrombocytopenia (PCTP) is a rare phenomenon that occurs when auto-antibodies cause platelet clumping in whole blood stored in EDTA Tubes.^{52,53} EDTA-induced platelet clumping results in false low platelet counts that may lead to an incorrect diagnosis of bleeding diathesis.^{52,53} Platelet clumps may also be mistaken for white blood cells and cause false high white blood cell counts.⁵⁴

The simplest way to correct EDTA-dependent PCTP is by taking another blood sample and analysing it immediately, since platelet clumping increases over time.⁵⁵ Another way to avoid this problem is by choosing another anticoagulant (e.g., *acid citrate dextrose (ACD)* or *sodium citrate*).⁵⁶⁻⁵⁹ When determining cell counts, please keep in mind that some anticoagulants dilute the blood.



BD Vacutainer® K₃EDTA Tubes

Cat. no.	Draw volume (mL)	Size (mm)	Additive	Separator	Material	Label	Cap closure	Cap colour
367836	2.0*	13 x 75	K ₃ EDTA	None	PET	Block	BD Hemogard™	
368857	3.0*	13 x 75	K ₃ EDTA	None	PET	Block	BD Hemogard™	
368270	4.0	13 x 75	K ₃ EDTA	None	PET	See thru	BD Hemogard™	
368860	4.0	13 x 75	K ₃ EDTA	None	PET	Block	BD Hemogard™	

All tubes are supplied in boxes of 100 units / cases of 1,000

* Partial-draw tube

Venous blood sampling

Speciality Tubes

BD Vacutainer® Crossmatch Tubes

BD Vacutainer® Crossmatch Tubes are available with either EDTA or clot activator additives. The BD Vacutainer® Crossmatch Tube is identified by:

- a pink cap
- a large block label



BD Vacutainer® Crossmatch Tubes

Cat. no.	Draw volume (mL)	Size (mm)	Additive	Separator	Material	Label	Cap closure	Cap colour
366164	4.0	13 x 75	K ₂ EDTA	None	PET	Crossmatch	BD Hemogard™	
367941	6.0	13 x 100	K ₂ EDTA	None	PET	Crossmatch	BD Hemogard™	
368817	6.0	13 x 100	Silica (clot activator)	None	PET	Crossmatch	BD Hemogard™	

All tubes are supplied in boxes of 100 units / cases of 1,000

Blood group determination

The anticoagulant Acid Citrate Dextrose (ACD) is used for erythrocyte conservation. ACD is available in two solutions, A and B, each with different mixture ratios.

Anticoagulant	ACD solution A	ACD solution B
Na ₃ citrate	3.30 mg/mL	1.89 mg/mL
Citric acid	1.20 mg/mL	0.69 mg/mL
Dextrose	3.68 mg/mL	2.10 mg/mL
Potassium sorbate	0.03 mg/mL	0.03 mg/mL

The figures represent the final concentration in the blood in each case.



BD Vacutainer® Tubes for blood group determination

Cat. no.	Draw volume (mL)	Size (mm)	Additive	Separator	Material	Label	Cap closure	Cap colour
367756	6.0	13 x 100	ACD solution B	None	Glass	Paper	BD Hemogard™	
366645	8.5	16 x 100	ACD solution A	None	Glass	Paper	Conventional	

All tubes are supplied in boxes of 100 units / cases of 1,000

Venous blood sampling

Speciality tubes

Trace element determination

BD Vacutainer® Tubes for trace element determination contain controlled amounts of specific elements for trace element analysis. Maximum concentrations are defined for the trace elements antimony, arsenic, lead, chromium, iron, cadmium, calcium, copper, magnesium, manganese, mercury, selenium and zinc that could be extracted by blood from the tube itself or the stopper.

Every production batch is checked and only released if the given maximum value is not exceeded. The values given take into account the use of a straight BD Blood Collection Needle.

BD Vacutainer® Trace Element Tube Contamination Upper Limits

Analyte	Glass µg/L	PET µg/L	Analyte	Glass µg/L	PET µg/L
Antimony	0.8	.*	Lead	2.5	0.3
Arsenic	1.0	0.2	Magnesium	60	40
Cadmium	0.6	0.1	Manganese	1.5	1.5
Calcium	400	150	Mercury**	-	3.0
Chromium	0.9	0.5	Selenium	-	0.6
Copper	8.0	5.0	Zinc	40	40
Iron	60	25			

* BD Vacutainer® trace element PET Tubes should not be used for antimony testing.

** Water extraction analysed by cold vapour, all others ICP-MS

BD Vacutainer® Tubes for trace element determination

Cat. no.	Draw volume (mL)	Size (mm)	Additive	Separator	Material	Label	Cap closure	Cap colour
368380	6.0	13 x 100	Silica (clot activator)	None	PET	Paper	BD Hemogard™	
368381	6.0	13 x 100	K ₂ EDTA	None	PET	Paper	BD Hemogard™	
367735	7.0	13 x 100	Sodium heparin	None	Glass	Paper	BD Hemogard™	

All tubes are supplied in boxes of 100 units / cases of 1,000

BD Vacutainer® K₃EDTA/Aprotinin Tubes

BD Vacutainer® K₃EDTA Tubes contain Aprotinin, a protein stabiliser

Cat. no.	Draw volume (mL)	Size (mm)	Additive	Separator	Material	Label	Cap closure	Cap colour
361017	5.0	13 x 75	Aprotinin (250 IU)/K ₃ EDTA	None	Glass	Paper	BD Hemogard™	

All tubes are supplied in boxes of 100 units / cases of 1,000

BD Vacutainer® EST Tubes

BD Vacutainer® EST Tubes do not have any additives and are suitable as a secondary tube for anticoagulated blood samples, for example for taking plasma samples from blood bags. The BD Vacutainer® EST™ Tube can also be used as a discard tube.

BD Vacutainer® EST Tubes

Cat. no.	Draw volume (mL)	Size (mm)	Additive	Separator	Material	Label	Cap closure	Cap colour
362725	3.0	13 x 75	No additive	None	PET	See thru	BD Hemogard™	

All tubes are supplied in boxes of 100 units / cases of 1,000

Cell and biomarker preservation

BD Vacutainer® CPT™ Blood Collection Tubes

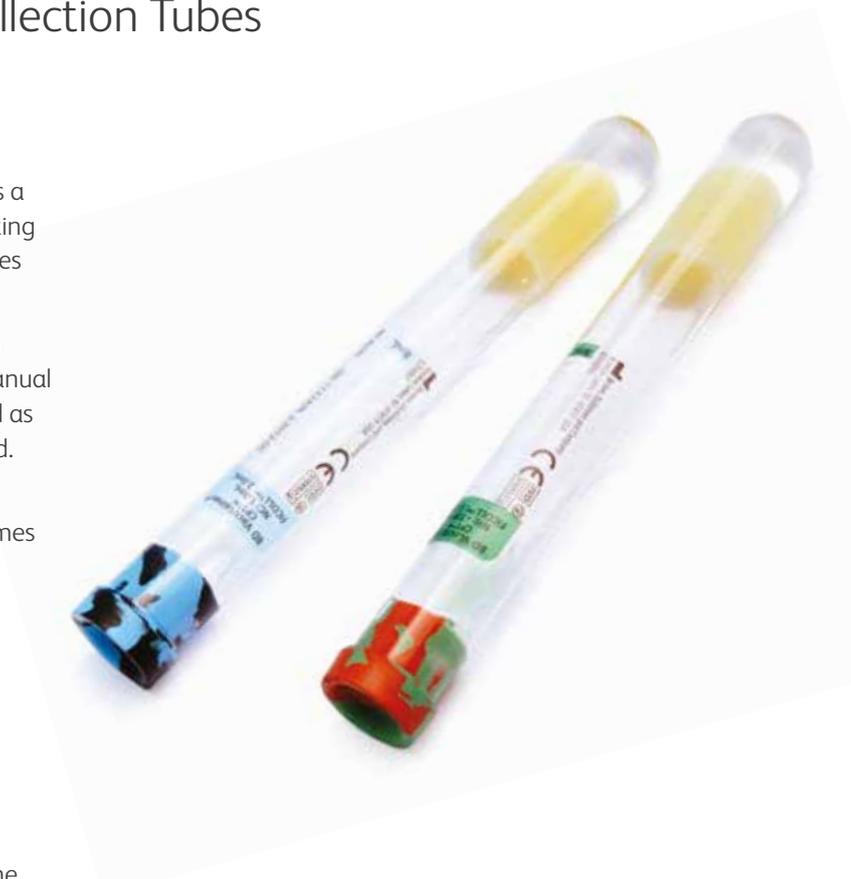
BD Vacutainer® CPT™ (Cell Preparation Tube)

The BD CPT™ containing FICOLL™* and separation gel is a one-step system that provides a simple method for isolating peripheral blood mononuclear cells (PBMCs) - lymphocytes and monocytes, from whole blood.

The tube provides a sample-to-yield solution, eliminating stages of blood transfer, preparation of FICOLL™ and manual gradient separation. Waiting time is significantly reduced as centrifugation can be carried out with the brakes enabled.

The tube can yield up to 1.3 million lymphocytes and monocytes per mL of whole blood with centrifugation times of 15 or 20 minutes. The BD CPT™ Tube enables:

- Preparation and consistency
 - Standardised process when compared to manual FICOLL™ gradient separations
 - Reproducibility between sample preparations and technical operators
 - Less blood exposure for laboratory staff
- Faster separations
 - Blood draw to centrifuge - FICOLL™ is contained in the tube enabling fast gradient separation
 - Reduce waiting times during centrifugation with brakes enabled
- Post separation
 - The gel barrier provides clear cell separation and no aliquoting or additional tubes are required
 - Separated sample can be transported in BD CPT™ Tube
 - Cells are stable in the BD CPT™ Tube for up to 24 hours, depending on downstream application



The BD CPT™ Tube is CE marked for *in vitro* diagnostic use.

Further information

Clinical and technical information is available on request.

Centrifugation conditions**

Sodium Heparin 1,500-1,800 g for 15 minutes at 18-25°C
 Sodium Citrate 1,500-1,800 g for 20 minutes at 18-25°C

BD Vacutainer® CPT™ Tubes

Cat. no.	Draw volume (mL)	Size (mm)	Additive	Separator	Material	Label	Cap closure	Cap colour
362781	4.0	13 x 100	Sodium citrate 0.45 mL 0.1 M/1.0 mL FICOLL™	Gel	Glass	Transparent	Conventional	
362782	8.0	16 x 125**	Sodium citrate 1.0 mL 0.1 M/2.0 mL FICOLL™	Gel	Glass	Transparent	Conventional	
362780	8.0	16 x 125**	Sodium heparin 132 USP Units in 1.0 mL PBS/2.0 mL FICOLL™	Gel	Glass	Transparent	Conventional	

All tubes are supplied in cases of 60 units

Available to buy online at www.bdbiosciences.com - search CPT

* FICOLL is a registered trademark of GE Healthcare Companies.

**Please note: These tubes are longer than conventional blood collection tubes. Please ensure that the tubes are free to swing when placing them into the centrifuge.

Cell and biomarker preservation

PAXgene® Blood ccfDNA Tube

PAXgene® Blood ccfDNA Tube

The PAXgene® Blood ccfDNA Tube was developed by PreAnalytix, a joint venture between QIAGEN and BD.

The PAXgene® Blood ccfDNA Tube is a plastic, evacuated tube intended for the collection, storage and transport of human blood and stabilisation of DNA. This tube is used to isolate circulating cell-free DNA (ccfDNA) from plasma and/or genomic DNA (gDNA) from a nucleated cellular fraction.

The PAXgene® Blood ccfDNA Tube ensures:

- Immediate stabilisation of ccfDNA and/or gDNA for the following duration and temperature ranges:⁶⁰

Length of stabilization of whole blood	<ul style="list-style-type: none"> • 2-37°C for up to 3 days • 2-30°C for up to 7 days • 2-25°C for up to 10 days Do not store blood-filled tubes below 2°C.
ccfDNA stabilization in plasma in secondary tube	<ul style="list-style-type: none"> • 2-25 °C for up to 3 days • 2-8°C for up to 7 days Plasma can be stored frozen at -20 or -80°C for at least 1 year (long term study ongoing)
Stabilization of gDNA in nucleated cellular fraction post centrifugation	<ul style="list-style-type: none"> • 2-25 °C for up to 3 days • 2-8°C for up to 7 days Nucleated cellular fraction can be stored frozen at -20°C or below for at least 1 year (long-term study ongoing) and is robust against at least three freeze/thaw cycles.



- Analysis of methylated markers⁶⁰
A proprietary non-crosslinking stabilisation chemistry preserves ccfDNA without cross-linking challenges to optimise sensitivity and specificity for genetic biomarker downstream analysis*.
- ccfDNA & gDNA
Possible extraction from a single tube after centrifugation for parallel analyte analysis.
- Compatibility with NGS and qPCR quantification methods
- Simplified centrifugation protocols, with flexibility at 1600-3000 g (RCF) for 15min.

Performance characteristics established with 18S ribosomal and DYS14 Y-chromosomal ccfDNA fragments in plasma.

For more information please visit www.PreAnalytix.com

The PAXgene® Blood ccfDNA Tube is CE marked for in vitro diagnostic use.

Further information

Clinical and technical information is available on request.



PAXgene® Blood ccfDNA Tubes

Cat. no.	Draw volume (mL)	Size (mm)	Additive	Separator	Material	Label	Cap closure	Cap colour
768165	10	16 x 100	Proprietary	None	PET	Paper with 2D barcode	BD Hemogard™	

All tubes are supplied in cases of 100 units

*Users must validate use of product for their specific molecular diagnostic assay.

Cell and biomarker preservation

PAXgene® Blood RNA Tube

PAXgene® Blood RNA Tube

The PAXgene® Blood RNA Tube was developed by PreAnalytiX, a joint venture between QIAGEN and BD.

The PAXgene® Blood RNA Tube contains a proprietary reagent that immediately stabilises RNA. The PAXgene® Blood RNA Tube ensures:

- Immediate stabilisation of cellular RNA in whole blood
The cellular RNA will be stable for:⁶¹
3 days – whole blood at room temperature (18-25°C)
5 days – refrigerated whole blood (2-8°C)
11 years – frozen whole blood (-20°C and -70°C)*
- RNA yield
The yield, dependent upon the sample and the RNA isolation kit, is $\geq 3 \mu\text{g}$ for > 95% of the samples (healthy subjects with a leukocyte count of $4.8 - 11 \times 10^6/\text{mL}$)
- RNA quality
The A_{260}/A_{280} ratio is 1.8-2.2 for 95% of all samples. Genomic DNA contamination is 1% in $\geq 95\%$ of all samples



- Increased traceability
The PAXgene® Blood RNA Tube has a human readable and 2D barcode label. Each tube has a unique identification code that can be associated to the patient blood specimen

For more information please visit www.PreAnalytiX.com.

The PAXgene® Blood RNA Tube is CE marked for *in vitro* diagnostic use.**

Further information

Clinical and technical information is available on request.



PAXgene® Blood RNA Tubes

Cat. no.	Draw volume (mL)	Size (mm)	Additive	Separator	Material	Label	Cap closure	Cap colour
762165	2.5	16 x 100	Proprietary	None	PET	Paper with 2D barcode	BD Hemogard™	

All tubes are supplied in cases of 100 units

Available to buy online at www.bdbiosciences.com - search PAXgene RNA

**Immediately
stabilises
RNA**

* Long-term study of blood storage in PAXgene Blood RNA Tubes is ongoing.

** Performance characteristics of the PAXgene Blood RNA System have been established with FOS and IL1B gene transcripts. The user is responsible for establishing appropriate PAXgene Blood RNA System performance characteristics for other target transcripts.

Cell and biomarker preservation

PAXgene® Blood DNA Tube

PAXgene® Blood DNA Tube

The PAXgene® Blood DNA Tube was developed by PreAnalytiX, a joint venture between QIAGEN and BD.

The PAXgene® Blood DNA Tube contains a proprietary EDTA formulation that immediately stabilises genomic DNA (gDNA). The PAXgene® Blood DNA Tube ensures sufficient DNA quantity and quality for molecular diagnostic assays from whole blood.

Documented DNA stability and performance data

DNA samples purified from the 2.5 mL draw volume tube will have a ratio (A_{260}/A_{280}) of 1.7-1.9 and a DNA concentration of ≥ 12.5 ng DNA/ μ l eluate for 95% of samples and ensure DNA stability after blood collection for:⁶²

- 14 days at room temperature (18-25°C)
- 28 days refrigerated (2-8°C)
- 3 days at 35°C

Increased traceability

The PAXgene® Blood DNA Tube has a human readable and 2D barcode label. Each tube has a unique identification code that can be associated with the patient blood specimen.



For more information please visit www.PreAnalytiX.com.

The PAXgene® Blood DNA Tube is CE marked for *in vitro* diagnostic use.

Further information

Clinical and technical information is available on request.



PAXgene® Blood DNA Tubes

Cat. no.	Draw volume (mL)	Size (mm)	Additive	Separator	Material	Label	Cap closure	Cap colour
761165	2.5	13 x 75	Proprietary	None	PET	Paper with 2D barcode	BD Hemogard™	

All tubes are supplied in boxes of 100 units / cases of 1,000

Available to buy online at www.bdbiosciences.com - search PAXgene DNA

Cell and biomarker preservation

BD Vacutainer® PPT™ Blood Collection Tubes

BD Vacutainer® PPT™ (Plasma Preparation Tube)

The BD Vacutainer® PPT™ Plasma Preparation Tube is used to separate undiluted plasma from whole blood for molecular diagnostic tests. These methods include, but are not limited to, polymerase chain reaction (PCR) or branched DNA (bDNA) amplification techniques. The BD Vacutainer® PPT™ Tube is also applicable to other molecular diagnostic analyses where an undiluted plasma specimen is required. The BD Vacutainer® PPT™ Tube ensures:

- Safe handling of infectious samples and no re-labelling
Plasma is prepared in the closed BD Vacutainer® Tube that can be directly transported, eliminating the need for aliquoting from primary BD Vacutainer® Tube to secondary container and re-labelling.
- Whole blood may be stored in the BD PPT™ Tube up to six hours prior to centrifugation. Following centrifugation, the gel barrier prevents plasma from coming into contact with blood cells. Plasma sample stability is dependent on the application.^{63,64}

Plasma may be stored frozen in situ in the BD Vacutainer® PPT™ Tube. However, freezing plasma in situ in BD Vacutainer® PPT™ Tubes may be prohibited for some assays and the assay manufacturer's guidelines should be consulted.

The BD Vacutainer® PPT™ Tube is CE marked for *in vitro* diagnostic use.



Further information

Clinical and technical information is available on request.

Centrifugation conditions

1,100 g for 10 minutes at 18-25°C

BD Vacutainer® PPT™ Tubes

Cat. no.	Draw volume (mL)	Size (mm)	Additive	Separator	Material	Label	Cap closure	Cap colour
362791	5.0	13 x 100	K ₂ EDTA	Gel	PET	Paper	BD Hemogard™	
362795	5.0	13 x 100	K ₂ EDTA	Gel	PET	See thru	BD Hemogard™	
362799	8.5	16 x 100	K ₂ EDTA	Gel	PET	See thru	BD Hemogard™	

1.9

1.10

All tubes are supplied in boxes of 100 units / cases of 1,000

Available to buy online at www.bdbiosciences.com - search PPT

Cell and biomarker preservation

BD® P100 Tubes for stabilising proteins

The BD® P100 Tube is a plasma protein preservation tube that contains K₂EDTA anticoagulant and a broad spectrum protease inhibitor cocktail optimised for human blood. The 8.5 ml BD® P100 Tube also features a mechanical separator which provides high-quality plasma suitable for many downstream protein analysis platforms including mass spectrometry and immunoassays thanks to significant reduction in cellular contamination and increased stability of plasma proteins.

Centrifugation

For best sample quality, the centrifugation of the BD® P100 Tube should be performed in a swing-out centrifuge as soon as possible after the blood sample has been collected. Use of a fixed 45° angle rotor is possible.

Optimum centrifugation conditions for a 8.5 mL tube:
2,500 g for 20 minutes

If 2,500 g cannot be achieved:
1,600 g for 30 minutes or
1,100 g for 30 minutes

Optimum centrifugation conditions for a 2.0 mL tube:
1,000 - 3,000 g for 10 minutes

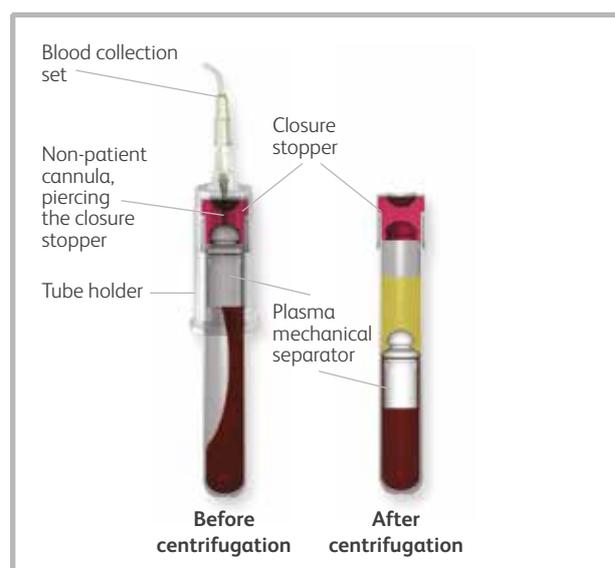


The BD® P100 plasma protein tube is for Research Use Only (RUO). Not for use in diagnostic procedures.

Further information

Clinical and technical information is available on request.

Mechanical plasma separator in a 8.5 mL tube



BD® P100 Tubes

Cat. no.	Draw volume (mL)	Size (mm)	Additive	Separator	Material	Label	Cap closure	Cap colour
366422	2.0	13 x 75	K ₂ EDTA/Protease inhibitor	None	PET	Paper	BD Hemogard™	
366448	8.5	16 x 100	K ₂ EDTA/Protease inhibitor	Mechanical separator*	PET	Paper	BD Hemogard™	

tubes are supplied in cases of 20 (366422) and 24 (366448)

Available to buy online at www.bdbiosciences.com - search P100

Cell and biomarker preservation

BD® P800 Tubes for measuring plasma metabolic markers

The BD® P800 Tube contains a proprietary cocktail of protease, esterase and dipeptidyl peptidase IV (DPP-IV) inhibitors that immediately solubilises during blood collection. The BD® P800 Tube provides preservation of the incretin peptides released during feeding - glucagon like peptide-1 (GLP-1), gastric inhibitory peptide (GIP), glucagon and oxyntomodulin (OXM).⁶⁵ The incretin peptides are associated with metabolic diseases, such as type 2 diabetes and obesity.



Centrifugation conditions

2.0 mL tubes: 1,100 -1,300 g for 10 minutes
8.5 mL tubes: 1,100 -1,300 g for 20 minutes

Further information

Clinical and technical information is available on request.

The BD® P800 Tube is for Research Use Only (RUO). Not for use in diagnostic procedures.

Stability

The table demonstrates the stability of the peptides as a half-life indicator, measured in hours at room temperature, in BD® P800 Tubes, compared to BD Vacutainer® EDTA Tubes:⁶⁵

Peptide	T ½ EDTA plasma (h) at rt*	T ½ BD® P800 plasma (h) at rt*	T ½ BD® P800 whole blood (h)
GLP-1 (7-36A)	4-24	> 96	10±0.5h at rt*, 37-96h on ice
GLP-1 (7-37)	4-18	> 96	12±1h at rt*, 41-5h on ice
GIP (1-42)	5-20	> 96	n.d
OXM	< 24	> 72	n.d
Glucagon	5-20	45	n.d

* Stable for up to 12 hours +/- 3 hours when EDTA Tube is on ice.

BD® P800 Tubes

Cat. no.	Draw volume (mL)	Size (mm)	Additive	Separator	Material	Label	Cap closure	Cap colour
366420	2.0	13 x 75	K ₂ EDTA/Protease, esterase and DPP-IV inhibitor	None	PET	Paper	BD Hemogard™	
366421	8.5	16 x 100	K ₂ EDTA/Protease, esterase and DPP-IV inhibitor	None	PET	Paper	BD Hemogard™	

All tubes are supplied in cases of 100

Available to buy online at www.bdbiosciences.com - search P800



Capillary blood sampling

BD Microtainer® Microtube for Automated Process (MAP) Blood Collection Tubes

Process optimisation for capillary blood samples

BD Microtainer® MAP Tubes are for collection, transport and processing of capillary blood from infants, children, geriatrics and emergency patients, whenever only the smallest amounts of blood are required.

The BD Microtainer® MAP Tube for automated processing enables efficient workflow, both on the ward and in the laboratory.

- A capillary blood tube with standard blood collection tube dimensions (13 x 75 mm) and penetrable closure.
- Compatible with haematology analysers without the need for a tube adapter.
- Three clearly visible fill markings ensure the correct sample volume (250-500 µl).
- A standard label can be attached directly to the sample, minimising the risk of misidentification due to missing or incomplete labelling.

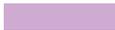


- Easy to open with twist-locking mechanism that ensures no leakage.
- Colour marking for identification of the type of sample and the correct positioning of the patient label.

Further information

Technical information is available on request.

BD Microtainer® MAP Tube

Cat. no.	Description	Closure	Cap colour	Box/Case
363705	K ₂ EDTA tube for haematology with full size blood collection tube, dimensions 13 x 75 mm	BD Microgard™		50/200

Automated
processing
enables efficient
workflow

Capillary blood sampling

BD Microtainer® Tubes

BD Microtainer®

BD Microtainer® Tubes are for collection, transport and processing of capillary blood from infants, children, geriatrics and emergency patients, whenever only the smallest amounts of blood are required.

In order to ensure tube identification, the tubes are marked with the colour code that corresponds to the venous blood collection tubes. There are fill marks on the tubes that ensure the correct blood to additive ratio.

BD Microgard™ Closure

The special design of the BD Microgard™ safety closure substantially reduces blood splashing after the tube has been opened.

A larger diameter facilitates tube handling.

In combination with a tube extender, the BD Microtainer® Tubes with BD Microgard™ closure fit into 13 x 75 mm racks.



Further information

Technical information is available on request.

BD Microtainer® Tubes with Microgard™ closure

Cat. no.	Description	Fill volume	Closure	Cap colour	Box/Case
365975	K ₂ EDTA tube for haematology	250-500 µl	BD Microgard™		50/200
365966	Plasma tube with lithium heparin	200-400 µl	BD Microgard™		50/200
365986	Plasma tube with separating gel and lithium heparin	400-600 µl	BD Microgard™		50/200
365988	Plasma tube with separating gel, lithium heparin and UV protection (amber tint for light-sensitive tests like bilirubin)	250-500 µl	BD Microgard™		50/200
365993	Glucose tube with sodium fluoride and Na ₂ EDTA	400-600 µl	BD Microgard™		50/200
365968	Serum tube with separating gel and clot activator	400-600 µl	BD Microgard™		50/200
365979	Serum tube with separating gel and clot activator, with UV protection (amber tint for light-sensitive tests like bilirubin)	400-600 µl	BD Microgard™		50/200
365964	Serum tube without clot activator	250-500 µl	BD Microgard™		50/200
368933	BD Microtainer® Tube extender for attachment to all BD Microtainer® Tubes with BD Microgard™ closure (10 mm diameter)	n/a	n/a		n/a

Capillary blood sampling

Safety lancets

Capillary blood sampling with BD Microtainer® Contact-Activated Lancet

The ergonomic design of the single-use BD Microtainer® Contact-Activated safety Lancet enables it to be held securely and to locate the sampling point precisely. The lancet has been clinically demonstrated to minimise patient discomfort and maximise blood flow.^{66,68}

Its intuitive handling requires minimum training. The lancet is activated by being pressed onto the sampling location, minimising the influence of the user on puncture depth. The sharp point then retracts automatically into the housing.

This lancet is available in three sizes: for a single drop of blood, medium or large blood flow.



Further information

Clinical and technical information is available on request.

BD Microtainer® Contact-Activated Lancets

Cat. no.	Piercing width and depth	Lancet Type	Blood volume	Colour code	Box/Case
366592	30 G x 1.5 mm	Needle	One drop		200/2,000
366593	21 G x 1.8 mm	Needle	Medium blood flow		200/2,000
366594	1.5 mm x 2.0 mm	Blade	Large blood flow		200/2,000

Capillary blood sampling

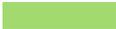
Safety lancets

BD Sentry™ Safety Lancet

A single-use safety lancet, available in two sizes. The lancet has an automatic needle retraction to protect healthcare workers from needlestick injuries and prevents re-use. It is designed with a V-shaped finger placement collar, natural-fit thumb pad and anti-slip ridges for more confident handling.



BD Sentry™ Safety Lancets

Cat. no.	Piercing width and depth	Lancet Type	Blood volume	Colour code	Box/Case
369528	28 G x 1.5 mm	Needle	One drop		100/2,000
369523	23 G x 1.8 mm	Needle	Medium blood flow		100/2,000



Capillary blood sampling

Safety lancets

Capillary blood sampling with BD Microtainer® Quikheel™ Lancet

The BD Microtainer® Quikheel™ Lancet is a single-use, safety lancet designed for taking capillary blood samples from the heels of premature, new-born babies and infants. When the button is pressed, an extra-thin steel blade provides a fine, clean, surgical cut and ensures a good flow of blood. The penetration depth is pre-determined to protect against bone infections and cannot be altered. The permanently shielded blade excludes the possibility of injury or reuse.

The ergonomic design enables it to be held securely and the piercing point located precisely. The lancets are sterile and individually packed in blister packaging.



Further information

Technical information is available on request.

BD Microtainer® Quikheel™ Lancets

Cat. no.	Description	Piercing depth	Piercing width	Lancet Type	Colour code	Box/Case
368102	Incision lancet for premature babies	0.85 mm	1.75 mm	Blade		50/200
368103	Incision lancet for newborn babies and infants	1.00 mm	2.50 mm	Blade		50/200



Blood collection devices and accessories

Safety blood collection sets

BD Vacutainer® UltraTouch™ Push Button Blood Collection Set

The BD Vacutainer® UltraTouch™ Push Button Blood Collection Set employs patented PentaPoint™ comfort 5-bevel needle technology. Studies have shown that this design helps reduce the chance of a painful injection by creating a flatter, thinner surface to help penetrate the skin with significantly greater ease.⁶⁸ This new safety device has been shown to reduce penetration forces by up to 32% when compared to another leading blood collection set.⁸

In addition, its exclusive BD RightGauge™, Ultra-Thin wall technology allows for better blood flow due to the needle's larger inner diameter. Therefore, clinicians can select a smaller gauge needle without sacrificing sample quality.

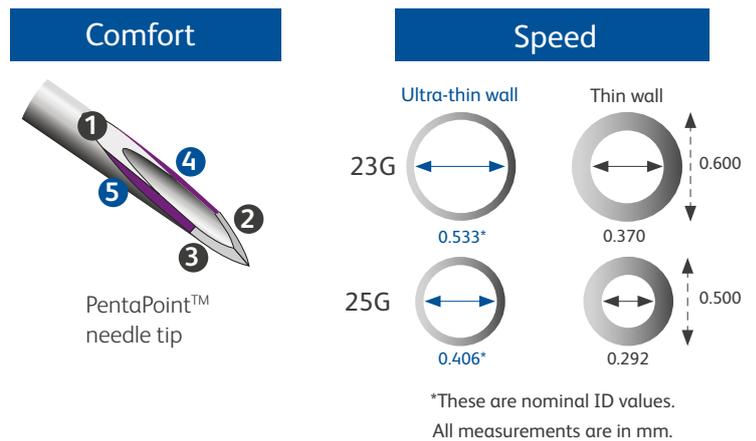
This technology can also improve tube fill time by up to 50% when using the same gauge (a standard 23-G needle vs the BD Vacutainer® UltraTouch™ Push Button Blood Collection Set).⁶⁹

The BD Vacutainer® UltraTouch™ Push Button Blood Collection Set brings healthcare workers greater confidence and the ability to know they can use the needle gauge that is most appropriate for their patients, with improved efficiency.

Further information

BD recommends for all needles without a pre-attached holder that a BD Vacutainer® One-Use Holder is used.

Clinical and technical information is available on request.



The experience

Less pain compared to traditional blood collection sets⁸



Improving difficult venous access⁷

Faster fill time compared to traditional blood collection sets⁶⁹

Reduce needlestick injury¹⁹



In-vein confirmation results in ease of use and confidence during venous blood collection

Blood collection devices and accessories

Safety blood collection sets

BD Vacutainer® UltraTouch™ Push Button Blood Collection Sets

Cat. no.	Size	Needle length	Length of tubing	With Luer adapter	Colour code	Box/Case
367393	21 G (0.8 mm)	19 mm	178 mm	Yes		50/200
367365	21 G (0.8 mm)	19 mm	305 mm	Yes		50/200
367392	23 G (0.6 mm)	19 mm	178 mm	Yes		50/200
367364	23 G (0.6 mm)	19 mm	305 mm	Yes		50/200
367391	25 G (0.5 mm)	19 mm	178 mm	Yes		50/200
367363	25 G (0.5 mm)	19 mm	305 mm	Yes		50/200

BD Vacutainer® UltraTouch™ Push Button Blood Collection Set with Pre-Attached Holder

With this safety blood collection set, the holder is already pre-attached, so it is not necessary to manually assemble the needle and holder. This ready-for-use blood collection set is individually packaged in a sterile blister.

This sterile closed system is ideally suited for taking of samples using the BD BACTEC™ Blood Culture Bottle, with bench-testing indicating improved fill rate.¹⁰



BD Vacutainer® UltraTouch™ Push Button Blood Collection Sets with Pre-Attached Holder

Cat. no.	Size	Needle length	Length of tubing	Colour code	Box/Case
368686	21 G (0.8 mm)	19 mm	178 mm		20/100
368689	21 G (0.8 mm)	19 mm	305 mm		20/100
368685	23 G (0.6 mm)	19 mm	178 mm		20/100
368688	23 G (0.6 mm)	19 mm	305 mm		20/100
368684	25 G (0.5 mm)	19 mm	178 mm		20/100
368687	25 G (0.5 mm)	19 mm	305 mm		20/100

Blood collection devices and accessories

Safety blood collection sets

BD Vacutainer® Push Button Blood Collection Set

The BD Vacutainer® Push Button Blood Collection Set with in-vein activation offers split-second protection against needlestick injuries.

- Indication of successful venepuncture:
When the vein has been successfully penetrated, blood flows immediately into the inspection chamber.⁷⁰
- Versatile:
For taking blood samples and for short-term infusions of up to 2 hours.
- Single-handed activation possible:
Activating the safety mechanism with one hand allows you to focus more attention on the patient and the venepuncture site.
- Protection against needlestick injuries:
When pressing the button, the needle is withdrawn straight from the vein and disappears permanently inside the housing of the blood collection set. This provides an extremely high level of protection⁷⁰.



Further information

BD recommends for all needles without a pre-attached holder that a BD Vacutainer® One-Use Holder is used.

Clinical and technical information is available on request.

BD Vacutainer® Push Button Blood Collection Sets

Cat. no.	Size	Needle length	Length of tubing	With Luer adapter	Colour code	Box/Case
367338	21 G (0.8 mm)	19 mm	178 mm	Yes		50/200
367344	21 G (0.8 mm)	19 mm	305 mm	Yes		50/200
367326	21 G (0.8 mm)	19 mm	305 mm	No		50/200
367336	23 G (0.6 mm)	19 mm	178 mm	Yes		50/200
367342	23 G (0.6 mm)	19 mm	305 mm	Yes		50/200
367324	23 G (0.6 mm)	19 mm	305 mm	No		50/200
367335	25 G (0.5 mm)	19 mm	178 mm	Yes		50/200
367341	25 G (0.5 mm)	19 mm	305 mm	Yes		50/200
367323	25 G (0.5 mm)	19 mm	305 mm	No		50/200

Blood collection devices and accessories

Safety blood collection sets

BD Vacutainer® Push Button Blood Collection Set with Pre-Attached Holder

With this Safety Blood Collection Set, the holder is already pre-attached, so it is not necessary to manually assemble the needle and holder. This ready-for-use blood collection set is individually packaged in a sterile blister.

This sterile closed system is ideally suited for taking of samples using the BD BACTEC™ Blood Culture Bottles.

Further Information

Technical information is available on request.



BD Vacutainer® Push Button Blood Collection Sets with Pre-Attached Holder

Cat. no.	Size	Needle length	Length of tubing	Colour code	Box/Case
367355	21 G (0.8 mm)	19 mm	178 mm		20/100
368657	21 G (0.8 mm)	19 mm	305 mm		20/100
367354	23 G (0.6 mm)	19 mm	178 mm		20/100
368658	23 G (0.6 mm)	19 mm	305 mm		20/100

**Ready-
for-use**

blood
collection set

Blood collection devices and accessories

Safety blood collection sets

BD Vacutainer® Safety-Lok™ Blood Collection Set

The BD Vacutainer® Safety-Lok™ Blood Collection Set for venous blood collection has a fully integrated safety shield, which once activated, protects against needlestick injuries.

- Indication of successful venepuncture:
When the vein has been successfully penetrated, blood can be seen in the device.
- Versatile:
For taking blood samples and for short-term infusions of up to 2 hours.
- Single-handed activation possible:
Activating the safety mechanism with one hand allows you to focus more attention on the patient and the venepuncture site.
- Protection against needlestick injuries:
Following successful venepuncture, the integrated safety shield is pushed over the needle, covering it completely, indicated by an audible click.



Further information

BD recommends for all needles without a pre-attached holder that a BD Vacutainer® One-Use Holder is used.

Clinical and technical information is available on request.

BD Vacutainer® Safety-Lok™ Blood Collection Sets

1.13

Cat. no.	Size	Needle length	Length of tubing	With Luer adapter	Colour code	Box/Case
367282	21 G (0.8 mm)	19 mm	178 mm	Yes		50/200
367286	21 G (0.8 mm)	19 mm	305 mm	Yes		50/200
367246	21 G (0.8 mm)	19 mm	305 mm	No		50/200
367284	23 G (0.6 mm)	19 mm	178 mm	Yes		50/200
367288	23 G (0.6 mm)	19 mm	305 mm	Yes		50/200
367247	23 G (0.6 mm)	19 mm	305 mm	No		50/200
367295	25 G (0.5 mm)	19 mm	178 mm	Yes		50/200
368383	25 G (0.5 mm)	19 mm	305 mm	No		50/200

Blood collection devices and accessories

Safety blood collection sets

BD Vacutainer® Safety-Lok™ Blood Collection Set with Pre-Attached Holder

With this Safety Blood Collection Set, the holder is already pre-attached, so it is not necessary to manually assemble the needle and holder. This ready-for-use blood collection set is individually packaged in a sterile blister.

The sterile closed system is ideally suited for the taking of samples using BD BACTEC™ Blood Culture Bottles.

Further information

Technical information is available on request.



BD Vacutainer® Safety-Lok™ Blood Collection Sets with Pre-Attached Holder

Cat. no.	Size	Needle length	Length of tubing	Colour code	Box/Case
1.13 368654	21 G (0.8 mm)	19 mm	178 mm	Green	25/200
368652	21 G (0.8 mm)	19 mm	305 mm	Green	25/200
368655	23 G (0.6 mm)	19 mm	178 mm	Blue	25/200
368653	23 G (0.6 mm)	19 mm	305 mm	Blue	25/200

**Sterile
closed
system**

Blood collection devices and accessories

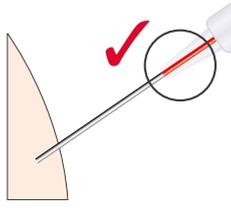
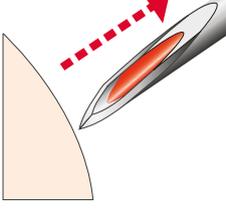
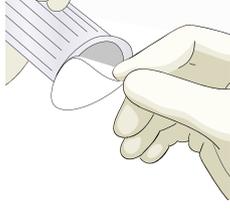
Safety blood collection needles

BD Vacutainer® Eclipse™ Signal™ Blood Collection Needle with integrated holder

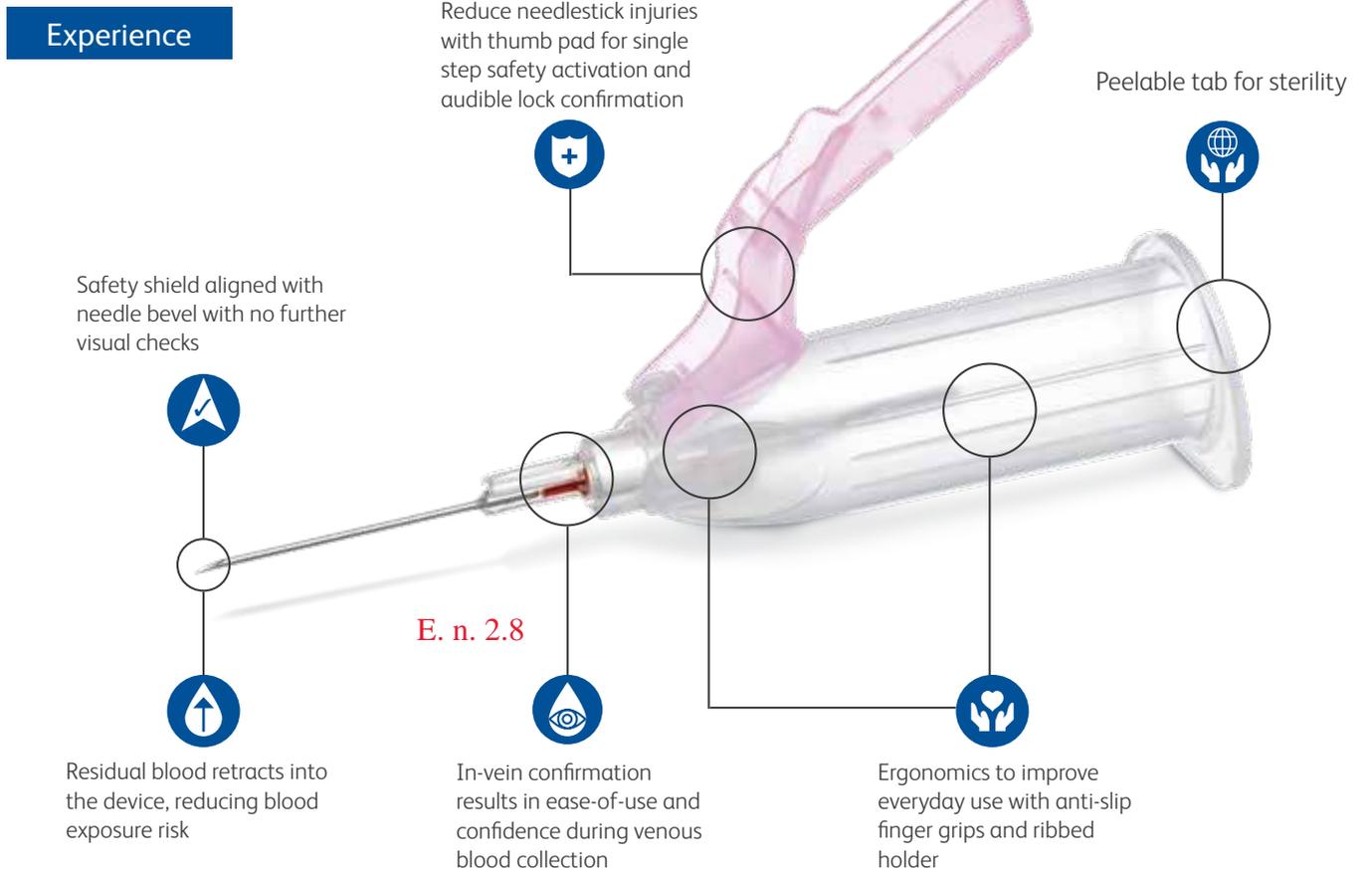
The BD Vacutainer® Eclipse™ Signal™ Needle offers a combination of proven, robust safety technology with the additional benefit of in-vein confirmation built into an integrated ergonomic holder. This results in ease of use and confidence during venous blood collection, aiming to increase both healthcare worker and patient safety.



1.20 1. įpakuotas atskirai, vienkartinis, pakuotė sterili

<p>Confirmation</p>  <p>BD InstaFlash™ Needle Technology instantly signals vein entry, to support improved first stick proficiency</p>	<p>Reduced risk</p>  <p>Blood droplet reduction technology draws blood away from the end of the needle</p>	<p>Minimal waste</p>  <p>A peelable tab maintains sterility while reducing packaging waste</p>
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Experience



- Reduce needlestick injuries with thumb pad for single step safety activation and audible lock confirmation** (Icon: Shield with cross)
- Peelable tab for sterility** (Icon: Globe with hands)
- Safety shield aligned with needle bevel with no further visual checks** (Icon: Checkmark)
- Residual blood retracts into the device, reducing blood exposure risk** (Icon: Upward arrow)
- In-vein confirmation results in ease-of-use and confidence during venous blood collection** (Icon: Eye)
- Ergonomics to improve everyday use with anti-slip finger grips and ribbed holder** (Icon: Hands holding a heart)

E. n. 2.8

Blood collection devices and accessories

Safety blood collection needles

BD Vacutainer® Eclipse™ Signal™ Blood Collection Needles with Integrated Holder

Cat. no.	Size	Needle length	Colour code	Box/Case
368835	21 G (0.8 mm)	25 mm		50/400
368836	22 G (0.7 mm)	25 mm		50/400

BD Vacutainer® Eclipse™ Signal™ Blood Collection Needles

Further information

BD recommends for all needles without a pre-attached holder that a BD Vacutainer® One-Use Holder is used.

Clinical and technical information is available on request.



Cat. no.	Size	Needle length	Colour code	Box/Case
368837	21 G (0.8 mm)	25 mm		50/500
368838	22 G (0.7 mm)	25 mm		50/500

Blood collection devices and accessories

Safety blood collection needles

BD Vacutainer® Eclipse™ Blood Collection Needle

The BD Vacutainer® Eclipse™ safety needle for venous blood sampling has a fully integrated safety shield, which once activated, protects against needlestick injuries. This safety shield is an integral part of the needle and its orientation aligns with the needle bevel. The safety mechanism is designed for single-handed activation. The fully integrated safety shield engages over the needle with an audible click, irreversibly locking with a triple closure mechanism.

Further information

BD recommends for all needles without a pre-attached holder that a BD Vacutainer® One-Use Holder is used.

Clinical and technical information is available on request.



BD Vacutainer® Eclipse™ Blood Collection Needles

Cat. no.	Size	Needle length	Colour code	Box/Case
368609	21 G (0.8 mm)	32 mm		48/480
368610	22 G (0.7 mm)	32 mm		48/480

BD Vacutainer® Eclipse™ Blood Collection Needle with Pre-Attached Holder

With this safety needle, the holder is already pre-attached, so it is not necessary to manually assemble the needle and holder. This ready-for-use blood sample needle and holder is individually packaged in a sterile blister.



BD Vacutainer® Eclipse™ Blood Collection Needles with Pre-Attached Holder

Cat. no.	Size	Needle length	Colour code	Box
368650	21 G (0.8 mm)	32 mm		100
368651	22 G (0.7 mm)	32 mm		100

1.20

Blood collection devices and accessories

Blood collection needles

BD Vacutainer® Multi-Sample Needles

BD Vacutainer® needles can be used for multiple tube samples. BD Vacutainer® needles are coated with silicone, a low friction lubricant, ensuring smooth vein entry.

BD Vacutainer® needles are available in 20, 21 or 22 gauge needle sizes.

Further information

BD recommends for all needles without a pre-attached holder that a BD Vacutainer® One-Use Holder is used.

Clinical and technical information is available on request.



BD Vacutainer® Multi-Sample Needles

Cat. no.	Size	Needle length	Colour code	Box/Case
360215	20 G (0.9 mm)	38 mm		100/1,000
360214	20 G (0.9 mm)	25 mm		100/1,000
1.14 360213	21 G (0.8 mm)	38 mm		100/1,000
360212	21 G (0.8 mm)	25 mm		100/1,000
360211	22 G (0.7 mm)	38 mm		100/1,000
360210	22 G (0.7 mm)	25 mm		100/1,000

BD Vacutainer® Flashback Blood Collection Needles

The BD Vacutainer® Flashback Needle is built with the same quality as the multi-sample needle and includes in-vein confirmation.

Cat. no.	Size	Needle length	Colour code	Box/Case
301746	21 G (0.8 mm)	25 mm		50/1,000
301747	22 G (0.7 mm)	25 mm		50/1,000

Blood collection devices and accessories

Adapters and holders

BD Vacutainer® One-Use Holder, BD Luer Adapters and Adapters with Pre-Attached Holders

- 1 The BD Vacutainer® Blood Transfer Device is a pre-assembled and easy-to-use device, designed with safety in mind. It is used for needle-less specimen transfer from a syringe to an evacuated tube or blood culture bottle and has a red colour-coded connection to provide easy differentiation from other holder-based products.
- 2 The BD Vacutainer® Luer-Lok™ Access Device is a pre-assembled multi-sample BD Luer-Lok™, compatible with female luer connections. It has a blue colour-coded connection to provide easy differentiation from other holder-based products.



3 The BD Vacutainer® One-Use Holder is compatible with all BD Vacutainer® Tubes and Needles. The BD Vacutainer® One-Use Holder is also compatible with the BD BACTEC™ Blood Culture Bottle.

4 The BD Vacutainer® Luer Adapter is a sterile device to be used with the BD Vacutainer® One-Use Holder. It is compatible with female luer connections, with a blue colour-coded cap to provide differentiation from other needles.

BD Vacutainer® Luer Adapters with Pre-Attached Holders

These single-use products are ready-to-use, sterile, packed individually with a unique GS1 DataMatrix 2D bar code device identifier, in a strip of six units.

Cat. no.	Description	Colour code	Case
36481000	Blood Transfer Device (female luer)		198
36490200	Luer-Lok™ Access Device (male luer)		198

BD Vacutainer® One-Use Holder

1.16

Cat. no.	Description	Colour code	Box/Case
364815	BD Vacutainer® One-Use Holder is made of plastic and is designed to be part of the BD Vacutainer® System, compatible with tubes of 13 mm and 16 mm diameter and BD BACTEC™ Blood Culture Bottle, transparent white		250/1,000

BD Vacutainer® Luer Adapter

1.15

Cat. no.	Description	Colour code	Case
367300	BD Vacutainer® Luer Adapter		100/1,000

Veninio kraujo mėginio paėmimas

Serumo analizė

Katalogo nr.	Tūris (mL)	Dydis (mm)	Specifikacija	Medžiaga	Etiketė	Dangtelis
366882	2.5	13x75	Silicis (krešulio aktyvatorius)/gelis	PET	Popierius	
367957	3.5	13x75	Silicis (krešulio aktyvatorius)/gelis	PET	Popierius	
368498	3.5	13x75	Silicis (krešulio aktyvatorius)/gelis	PET	Permatoma	
368965	3.5	13x75	Silicis (krešulio aktyvatorius)/gelis	PET	Popierius	
368966	3.5	13x75	Silicis (krešulio aktyvatorius)/gelis	PET	Popierius	
368967	3.5	13x75	Silicis (krešulio aktyvatorius)/gelis	PET	Popierius	
368879	4	13x100	Silicis (krešulio aktyvatorius)/gelis	PET	Permatoma	
367955	5	13x100	Silicis (krešulio aktyvatorius)/gelis	PET	Popierius	
366566	5	13x100	Silicis (krešulio aktyvatorius)/gelis	PET	Permatoma	
368968	5	13x100	Silicis (krešulio aktyvatorius)/gelis	PET	Popierius	
368969	5	13x100	Silicis (krešulio aktyvatorius)/gelis	PET	Popierius	
368970	5	13x100	Silicis (krešulio aktyvatorius)/gelis	PET	Popierius	
366444	6	16x100	Silicis (krešulio aktyvatorius)/gelis	PET	Popierius	
367953	8.5	16x100	Silicis (krešulio aktyvatorius)/gelis	PET	Popierius	
366644	8.5	16x100	Silicis (krešulio aktyvatorius)/gelis	PET	Permatoma	
366468	8.5	16x100	Silicis (krešulio aktyvatorius)/gelis	PET	Popierius	

Visi mėgintuvėliai tiekiami dėžėse po 100/dėkluose po 1000.

Veninio kraujo mėginio paėmimas

Serumo analizė

Serumo mėgintuvėliai

Norint gauti serumo mėginius iš plastikinių mėgintuvėlių, mėgintuvėlyje turi būti pridėtas koaguliacijos aktyvatorius. Kai paties plastikinio paviršiaus nepakanka sužadinti koaguliaciją per priimtina laiką, BD Vacutainer™ Plus plastikiniai serumo mėgintuvėliai turi silicio dalelių, pridėtų šiam tikslui. Šie mėgintuvėliai pažymėti akronimu CAT (krešulio aktyvatoriaus mėgintuvėlis).

Krešėjimo laikai

Rekomenduojamas minimalus pacientų, kurie nebuvo gydomi antikoagulantais, mėginių koaguliacijos laikas yra 60 minučių serumui (raudonas) ir 5 minutės trombino (oranžinis) mėgintuvėliams.

Centrifugavimo sąlygos:

≤1200 g 10 minučių prie 18-25°C stikliniams serumo mėgintuvėliams.

≤3200 g 10 minučių prie 18-25°C plastikiniams serumo mėgintuvėliams.

Maišymo rekomendacijos:

Plastikiniai ir stikliniai serumo mėgintuvėliai turi būti švelniai 5-6 kartus apverčiami 180°.



Katalogo nr.	Tūris (mL)	Dydis (mm)	Specifikacija	Medžiaga	Etiketė	Dangtelis
368492	2	13x75	Silicis (krešulio aktyvatorius)	PET	Popierius	
368271	2	13x75	Silicis (krešulio aktyvatorius)	PET	Permatoma	
369032	4	13x75	Silicis (krešulio aktyvatorius)	PET	Popierius	
365904	4	13x75	Silicis (krešulio aktyvatorius)	PET	Permatoma	
368815	6	13x100	Silicis (krešulio aktyvatorius)	PET	Popierius	
368814	6	13x100	Silicis (krešulio aktyvatorius)	PET	Popierius	
367819	6	13x100	Silicis (krešulio aktyvatorius)	PET	Permatoma	
367896	10	16x100	Silicis (krešulio aktyvatorius)	PET	Popierius	
367614	5	13x75	Be priedo/silikonas	Stiklas	Popierius	
367624	5	13x75	Be priedo	Stiklas	Popierius	

Visi mėgintuvėliai tiekiami dėžėse po 100/dėkluose po 1000.

Veninio kraujo mėginio paėmimas

Hematologija

EDTA

EDTA druskos (etilenio diamino tetra-acto rūgštis) yra naudojamos viso kraujo antikoaguliacijai hematologiniams tyrimams, kadangi ląsteliniai kraujo komponentai yra dalinai gerai konservuojami EDTA. Pastarasis veikia kaip antikoaguliantas, nes jis suformuoja kompleksus su metalo jonais, tokiais kaip kalcis, todėl slopina koaguliacijos kaskadą. Koaguliacija su EDTA yra negrįžtama.

EDTA koncentracija BD Vacutainer® mėgintuvėliuose yra 1.8 mg per mL pilno kraujo, kai užpildymo lygis yra tinkamas, kaip tai rekomenduoja ICSH (Tarptautinė hematologijos draugijos taryba)¹ ir CLSI (Klinikinių ir laboratorijos standartų institutas). Hematologiniams tyrimams institutai rekomenduoja dikalio EDTA druską (K₂EDTA). K₂EDTA yra naudojama BD Vacutainer® Plus plastikiniuose mėgintuvėliuose sausa forma.

Mėgintuvėlio maišymas

Tinkamai nedelsiant po kraujo mėginio paėmimo maišykite EDTA mėgintuvėlį (8-10 apvertimų), kad išvengtumėte mikrokrešėjimo.



Katalogo nr.	Tūris (mL)	Dydis (mm)	Specifikacija	Medžiaga	Etiketė	Dangtelis
368841	2	13x75	K ₂ EDTA	PET	Popierius	
368274	2	13x75	K ₂ EDTA	PET	Permatoma	
368856	3	13x75	K ₂ EDTA	PET	Popierius	
368499	3	13x75	K ₂ EDTA	PET	Permatoma	
368861	4	13x75	K ₂ EDTA	PET	Popierius	
367862	4	13x75	K ₂ EDTA	PET	Permatoma	
367864	6	13x100	K ₂ EDTA	PET	Popierius	
365900	6	13x100	K ₂ EDTA	PET	Permatoma	
367525	10	16x100	K ₂ EDTA	PET	Popierius	

Visi mėgintuvėliai tiekiami dėžėse po 100/dėkluose po 1000.

¹International Council for Standardisation in Haematology and: Expert Panel on Cytometry, Recommendations of the International Council for the Standardisation in Haematology for Ethylenediaminetetraacetic Acid Anticoagulation of Blood for Blood Cell Counting and Sizing, Am J Clin Pathol 1993;100: 371-372.

Veninio kraujo mėginio paėmimas

Koaguliacijos analizė

Katalogo nr.	Tūris (mL)	Dydis (mm)	Specifikacija	Medžiaga	Etiketė	Dangtelis
363047	1.8	13x75	Na citratas (0.109M = 3.2%)	PET	Popierius	
363097	1.8	13x75	Na citratas (0.129M = 3.8%)	PET	Popierius	
368273	1.8	13x75	Na citratas (0.109M = 3.2%)	PET	Permatoma	
363048	2.7	13x75	Na citratas (0.109M = 3.2%)	PET	Popierius	
363079	2.7	13x75	Na citratas (0.129M = 3.8%)	PET	Popierius	
364305	2.7	13x75	Na citratas (0.109M = 3.2%)	PET	Permatoma	
367714	4.5	13x75	Na citratas (0.105M = 3.2%)	Stiklas	Popierius	
367704	4.5	13x75	Na citratas (0.129M = 3.8%)	Stiklas	Popierius	
366575	6	13x100	Na citratas (0.105M = 3.2%)	Stiklas	Popierius	

Visi mėgintuvėliai tiekiami dėžėse po 100/dėkluose po 1000.

Veninio kraujo mėginio paėmimas

Gliukozės analizė



Katalogo nr.	Tūris (mL)	Dydis (mm)	Specifikacija	Medžiaga	Etiketė	Dangtelis
368920	2	13x75	Fluoridas (2.5 mg/mL) / Oksalatas (2 mg/mL)	PET	Popierius	
368921	4	13x75	Fluoridas (2.5 mg/mL) / Oksalatas (2 mg/mL)	PET	Popierius	
368201	5	13x100	Fluoridas (2.5 mg/mL) / Oksalatas (2 mg/mL)	PET	Popierius	
368520	2	13x75	Fluoridas (1.5 mg/mL) / EDTA (3 mg/mL)	PET	Blokas	
368521	4	13x75	Fluoridas (1.5 mg/mL) / EDTA (3 mg/mL)	PET	Blokas	
367764	5	13x75	Natrio fluoridas (4 mg/mL) / Natrio heparinas (28 IU/mL)	Stiklas	Popierius	

Visi mėgintuvėliai tiekiami dėžėse po 100/dėkluose po 1000.

Veninio kraujo mėginio surinkimas

Plazmos analizė

NAUJIENA BD Vacutainer® Barricor™ plazmos kraujo surinkimo mėgintuvėlis

BD Vacutainer® Barricor™ yra revoliucinis naujas kraujo surinkimo mėgintuvėlis, kuris suteikia pastoviai greitą, švarų, aukštos kokybės plazmos mėginį, leidžiant gauti tiksliausių rezultatus.

Dizainas papildo BD Vacutainer® vakuuminius kraujo surinkimo mėgintuvėlius ir tęsia BD tikslą užtikrinti geriausią kraujo mėginių surinkimo, gabenimo ir apdorojimo praktiką.

BD Barricor™ produkto savybės buvo sukurtos siekiant užtikrinti optimalų našumą. Naujausių technologijų mechaninis atskyriklis pagreitina našumą ir optimizuoja darbo eigą panaudojant plazmos galią.

Pagrindiniai mechaninio atskyriklio privalumai lyginant su gelio mėgintuvėliais:

- Ypač aukšta mėginio kokybė lyginant su plazmos gelio mėgintuvėliu – 47 % mažiau trombocitų nei BD PST™ II¹.
- Atskyrimas per 3 minutes esant 4000 g².
- Mėginio paėmimo zondo užteršimo geliu, kuris užkiša zondą, gadina analizatorių ir sukuria papildomus priežiūros kaštus, rizikos pašalinimas.
- Didesnis analičių intervalas gali būti tiriamas vienu mėgintuvėliu, pvz. terapiniai medikamentai³.
- Ilgesnis analičių stabilumas lyginant su esamais plazmos gelio atskyrimo mėgintuvėliais⁴.
- Sumažintas jautrumas temperatūrai sandėliavimo metu.

Mėgintuvėlio maišymas

Siekiant išvengti mikrokrešulių, maišykite BD Barricor™ mėgintuvėlį 8-10 apvertimų nedelsiant po kraujo mėginio surinkimo.

Centrifugavimo sąlygos

4000 g 3 minutes

3000 g 5 minutes

2500 g 7 minutes

1850 g 10 minučių

Infekcinių ligų tyrimui centrifuguokite 3000 g 10 minučių⁵.

Žr. www.bd.com/ifu

Kita informacija

Klinikinė ir techninė informacija pateikiama atskiru prašymu.



1. BD White Paper VS9195: Evaluation of Specimen Quality in BD Vacutainer® Barricor™ Tubes with Respect to Visual Observations and Cell Counts in Plasma as Compared with BD Vacutainer® PST™ II Tubes, 2016.

2. BD White Paper VS9192: Evaluation of Analyte Performance (including cell count, plasma yield, visuals) at Various Centrifugation Conditions (optimum vs recommended), 2016.

3. BD White Paper VS9168: Comparisons of the BD Vacutainer® Barricor™ Plasma Blood Collection Tube with the BD Vacutainer® PST™ II Tube and BD Vacutainer® Serum Tube for Selected Therapeutic Drugs, 2016.

Kodas	Ištraukimo tūris (mL)	Dydis (mm)	Priedaai	Atskyrimas	Medžiaga	Etiketė	Dangtelio uždarymas	Dangtelio spalva
365050	3.0	13 x 75	Ličio heparinas	Mechaninis atskyrimo įtaisas**	PET	Popierinė	BD Hemogard™	
365054	3.0	13 x 75	Ličio heparinas	Mechaninis atskyrimo įtaisas**	PET	Permatoma	BD Hemogard™	
365053	3.5	13 x 100	Ličio heparinas	Mechaninis atskyrimo įtaisas**	PET	Popierinė	BD Hemogard™	
365049	4.5	13 x 100	Ličio heparinas	Mechaninis atskyrimo įtaisas**	PET	Popierinė	BD Hemogard™	
365052	4.5	13 x 100	Ličio heparinas	Mechaninis atskyrimo įtaisas**	PET	Permatoma	BD Hemogard™	
365081	5.0	13 x 100	Ličio heparinas	Mechaninis atskyrimo įtaisas**	PET	Permatoma	BD Hemogard™	
365056	5.5	13 x 100	Ličio heparinas	Mechaninis atskyrimo įtaisas**	PET	Popierinė	BD Hemogard™	
365057	5.5	13 x 100	Ličio heparinas	Mechaninis atskyrimo įtaisas**	PET	Permatoma	BD Hemogard™	

Visi mėgintuvėliai tiekiami dėžėmis po 100 / dėkluose po 1000.



Kraujo atskyrimas

Kai ištemptas, kanalai sukuriami apie atskyrikli leidžiant kraujo ląstelėms ištekėti iš plazmos savybė, kuri išskiria BD Barricor™ iš gelinių mėgintuvėlių



Kraujo atskyrimas

Kai centrifuga lėtėja, elastomeras grįžta į originalią formą suformuodamas sandariklį tarp plazmos viršuje ir kraujo ląstelių apačioje. Tokiu būdu gaunamas stabilus tvirtas barjeras

4. BD White Paper VS9295: Within-Tube Stability of Selected Routine Chemistry Analytes and Immunoassays BD Vacutainer® Barricor™ Tubes at Multiple Time Post Centrifugation, 2016.

5. BD White Paper VS9236: Comparison of BD Vacutainer® Barricor™ Tubes with BD Vacutainer® PST™ II, SST™ II and Serum Tubes for Selected Diagnostic Infectious Disease Marker Assays, 2016.

** Mechaninis atskyrimo įtaisas: termoplastiškas elastomeras (TPE) ir didelio tankio polipropilenas.

Veninio kraujo mėginio paėmimas

Plazmos analizė

Ličio heparinas/Natrio heparinas

BD Vacutainer® plazmos mėgintuvėliai klinikinei chemijai gali būti išigyjami išpurkšti sausais natrio heparino ar ličio heparino priedais. Heparinas veikia kaip antikoaguliantas, nes jis sukuria antitrombino kompleksą.

Optimali antikoaguliacija pasiekama visuose BD Vacutainer® mėgintuvėliuose naudojant 17IU farmacinės klasės hepariną per mL kraujo, kai užpildymo lygis yra tinkamas. Ličio heparinas BD Vacutainer® yra išpurškiamas sausas ant vidinių mėgintuvėlių sienelių naudojant specialią procedūrą, kad priedas būtų tolygiai paskirstomas siekiant geriausio galimo tirpumo. Klinikinei chemijai ličio heparinas bendru atveju rekomenduojamas pirmiau natrio heparino.

Centrifugacijos sąlygos:

≤1300 g 10 minučių prie 18-25°C.



Maišymo rekomendacijos:

Plazmos mėgintuvėliai turi būti švelniai 8-10 kartų apverčiami 180°. Tinkamas BD Vacutainer® heparino mėgintuvėlio maišymas nedelsiant po kraujo mėginio paėmimo yra ypač svarbus siekiant išvengti mikrokrešėjimo.

BD Vacutainer® Heparin mėgintuvėliai

Katalogo nr.	Tūris (mL)	Dydis (mm)	Specifikacija	Medžiaga	Etiketė	Dangtelis
368494	2	13x75	Ličio heparinas	PET	Popierius	
368272	2	13x75	Ličio heparinas	PET	Permatoma	
368884	4	13x75	Ličio heparinas	PET	Popierius	
368496	4	13x75	Ličio heparinas	PET	Permatoma	
368886	6	13x100	Ličio heparinas	PET	Popierius	
368889	6	13x100	Ličio heparinas	PET	Permatoma	
367526	10	13x100	Ličio heparinas	PET	Popierius	
367869	4	13x75	Natrio heparinas	PET	Popierius	
367876	6	13x100	Natrio heparinas	PET	Popierius	
368480	10	16x100	Natrio heparinas	Stiklas	Popierius	

Visi mėgintuvėliai tiekiami dėžėse po 100/dėkluose po 1000.

Ląstelių ir biožymenų konservavimas

BD PPT™ kraujo paėmimo mėgintuvėliai

BD PPT™ sistema (plazmos paruošimo mėgintuvėlis)

BD PPT™ mėgintuvėlis naudojamas neskiestos plazmos iš viso kraujo atskyrimui molekulinės diagnostikos testų metodams. Šiuos metodus sudaro, tačiau neapsiribojama, polimerazės grandinės reakcija (PGR) ar šakinio DNR (bDNA) amplifikacijos technikos. BD PPT™ mėgintuvėlis taip pat taikomas kitoms MDx analizėms, kur reikalingas neskiestos plazmos mėginys. BD PPT™ mėgintuvėliai užtikrina:

- **Saugų infekcinių mėginių tvarkymą**
Naudotojas nėra veikiamas biologiškai pavojingų medžiagų, esančių BD Vacutainer™ mėgintuvėlyje. Plazma paruošiama uždarame BD Vacutainer™ mėgintuvėlyje, kuris gali būti tiesiogiai transportuojamas, tokiu būdu pašalinant alikvotinių dalių sudarymo poreikį iš pirminio BD Vacutainer™ mėgintuvėlio į antrinę talpyklą bei pakartotinio taros ženklinimo. Nėra jokio biologiškai pavojingo mėginio poveikio.
- **Plazmos kokybės išlaikymą**
Gelio barjeras apsaugo nuo plazmos patekimo į eritrocitus, kad būtų išlaikytas plazmos stabilumas. Virusinė įkrova bus stabili:
6 valandas – visas kraujas kambario temperatūroje¹
24 valandas – atskirta plazma kambario temperatūroje
5 dienos – atskirta plazma, laikoma šaldytuve 4°C
Plazma gali būti laikoma užšaldyta vietoje BD PPT™ mėgintuvėlyje. Tačiau, plazmos užšaldymas vietoje BD PPT™ mėgintuvėliuose gali būti draudžiamas kai kuriems tyrimams, todėl privalu laikytis tyrimo gamintojo gairių.
BD PPT™ mėgintuvėlis yra CE paženklintas ir FDA 510K išaiškintas *in vitro* diagnostiniam naudojimui.



Tyrimai

Mes džiaugsimės galėdami tiekti papildomą dokumentaciją arba literatūrą Jums pareikalaus.

Centrifugacijos sąlygos:

1100 g 10 minučių prie 18-25°C.

Maišymo rekomendacijos:

Plazmos paruošimo mėgintuvėliai turi būti švelniai 8-10 kartų apverčiami 180°.

Katalogo nr.	Tūris (mL)	Dydis (mm)	Specifikacija	Medžiaga	Etiketė	Dangtelis
362795	5	13x100	K ₂ EDTA/Gelis	PET	Permatoma	
362799	8.5	16x100	K ₂ EDTA/Gelis	PET	Permatoma	

Visi mėgintuvėliai tiekiami dėžėse po 100.

Veninio kraujo mėginio paėmimas

Serumo analizė

Serumo mėgintuvėliai

Norint gauti serumo mėginius iš plastikinių mėgintuvėlių, mėgintuvėlyje turi būti pridėtas koaguliacijos aktyvatorius. Kai paties plastikinio paviršiaus nepakanka sužadinti koaguliaciją per priimtina laiką, BD Vacutainer™ Plus plastikiniai serumo mėgintuvėliai turi silicio dalelių, pridėtų šiam tikslui. Šie mėgintuvėliai pažymėti akronimu CAT (krešulio aktyvatoriaus mėgintuvėlis).

Krešėjimo laikai

Rekomenduojamas minimalus pacientų, kurie nebuvo gydomi antikoagulantais, mėginių koaguliacijos laikas yra 60 minučių serumui (raudonas) ir 5 minutės trombino (oranžinis) mėgintuvėliams.

Centrifugavimo sąlygos:

≤1200 g 10 minučių prie 18-25°C stikliniams serumo mėgintuvėliams.

≤3200 g 10 minučių prie 18-25°C plastikiniams serumo mėgintuvėliams.

Maišymo rekomendacijos:

Plastikiniai ir stikliniai serumo mėgintuvėliai turi būti švelniai 5-6 kartus apverčiami 180°.



Katalogo nr.	Tūris (mL)	Dydis (mm)	Specifikacija	Medžiaga	Etiketė	Dangtelis
368492	2	13x75	Silicis (krešulio aktyvatorius)	PET	Popierius	
368271	2	13x75	Silicis (krešulio aktyvatorius)	PET	Permatoma	
369032	4	13x75	Silicis (krešulio aktyvatorius)	PET	Popierius	
365904	4	13x75	Silicis (krešulio aktyvatorius)	PET	Permatoma	
368815	6	13x100	Silicis (krešulio aktyvatorius)	PET	Popierius	
368814	6	13x100	Silicis (krešulio aktyvatorius)	PET	Popierius	
367819	6	13x100	Silicis (krešulio aktyvatorius)	PET	Permatoma	
367896	10	16x100	Silicis (krešulio aktyvatorius)	PET	Popierius	
367614	5	13x75	Be priedo/silikonas	Stiklas	Popierius	
367624	5	13x75	Be priedo	Stiklas	Popierius	

Visi mėgintuvėliai tiekiami dėžėse po 100/dėkluose po 1000.

Veninio kraujo mėginio paėmimas

Hematologija

EDTA

EDTA druskos (etilenio diamino tetra-acto rūgštis) yra naudojamos viso kraujo antikoaguliacijai hematologiniams tyrimams, kadangi ląsteliniai kraujo komponentai yra dalinai gerai konservuojami EDTA. Pastarasis veikia kaip antikoaguliantas, nes jis suformuoja kompleksus su metalo jonais, tokiais kaip kalcis, todėl slopina koaguliacijos kaskadą. Koaguliacija su EDTA yra negrįžtama.

EDTA koncentracija BD Vacutainer® mėgintuvėliuose yra 1.8 mg per mL pilno kraujo, kai užpildymo lygis yra tinkamas, kaip tai rekomenduoja ICSH (Tarptautinė hematologijos draugijos taryba)¹ ir CLSI (Klinikinių ir laboratorijos standartų institutas). Hematologiniams tyrimams institutai rekomenduoja dikalio EDTA druską (K₂EDTA). K₂EDTA yra naudojama BD Vacutainer® Plus plastikiniuose mėgintuvėliuose sausa forma.

Mėgintuvėlio maišymas

Tinkamai nedelsiant po kraujo mėginio paėmimo maišykite EDTA mėgintuvėlį (8-10 apvertimų), kad išvengtumėte mikrokrešėjimo.



Katalogo nr.	Tūris (mL)	Dydis (mm)	Specifikacija	Medžiaga	Etiketė	Dangtelis
368841	2	13x75	K ₂ EDTA	PET	Popierius	
368274	2	13x75	K ₂ EDTA	PET	Permatoma	
368856	3	13x75	K ₂ EDTA	PET	Popierius	
368499	3	13x75	K ₂ EDTA	PET	Permatoma	
368861	4	13x75	K ₂ EDTA	PET	Popierius	
367862	4	13x75	K ₂ EDTA	PET	Permatoma	
367864	6	13x100	K ₂ EDTA	PET	Popierius	
365900	6	13x100	K ₂ EDTA	PET	Permatoma	
367525	10	16x100	K ₂ EDTA	PET	Popierius	

Visi mėgintuvėliai tiekiami dėžėse po 100/dėkluose po 1000.

¹International Council for Standardisation in Haematology and: Expert Panel on Cytometry, Recommendations of the International Council for the Standardisation in Haematology for Ethylenediaminetetraacetic Acid Anticoagulation of Blood for Blood Cell Counting and Sizing, Am J Clin Pathol 1993;100: 371-372.

Saugios kraujo surinkimo adatos



Katalogo numeris	Dydis	Adatos ilgis	Spalvos kodas	Parduodamų vienetų kiekis
368609	21 G (0.8 mm)	1.25 “ (32 mm)	žalia	480 (10 x 48)
368610	22 G (0.7 mm)	1.25 “ (32 mm)	juoda	480 (10 x 48)

BD Vacutainer® Eclipse™ kraujo surinkimo adata su iš anksto prijungtu laikikliu

Su šia iš anksto sujungta saugia adata, laikiklis jau sumontuotas ant adatos, todėl nereikia rankiniu būdu surinkinėti adatos ir laikiklio. Tai yra paruošta naudoti kraujo mėginio adata ir laikiklis, tiekiami individualiai supakuoti sterilioje pakuotėje.



BD Vacutainer® Eclipse™ saugios adatos su iš anksto prijungti laikikliu

Katalogo numeris	Dydis	Adatos ilgis	Spalvos kodas	Parduodamų vienetų kiekis
368650	21 G (0.8 mm)	1.25 “ (32 mm)	žalia	100
368651	22 G (0.7 mm)	1.25 “ (32 mm)	juoda	100

Saugios kraujo paėmimo adatos

BD Vacutainer® Eclipse™ Signal™ kraujo paėmimo adata

BD Vacutainer® Eclipse™ Signal™ suteikia įrodytą tvirtą ir saugią technologiją bei papildomą pagerinto pataikymo į veną naudą. Dėl šių priežasčių adata lengva naudoti veninio kraujo paėmimo metu. Ji taip pat sumažina adatos dūrio sužeidimo kraujo paėmimo metu riziką taip pagerinant sveikatos priežiūros profesionalo ir paciento saugumą.



BD Vacutainer® Eclipse™ Signal™ kraujo paėmimo adatos

Katalogo nr.	Dydis	Ilgis	Spalvos kodas	Parduodamų vienetų kiekis
368837	21 G (0.8 mm)	1.25" (32 mm)		500 (10x50)
368838	22 G (0.7 mm)	1.25" (32 mm)		500 (10x50)



BD Vacutainer® Eclipse™ Signal™ kraujo paėmimo adatos su integruotu laikikliu

Katalogo nr.	Dydis	Ilgis	Spalvos kodas	Parduodamų vienetų kiekis
368835	21 G (0.8 mm)	1.25" (32 mm)		400 (8x50)
368836	22 G (0.7 mm)	1.25" (32 mm)		400 (8x50)

BD Vacutainer® Passive Shielding kraujo paėmimo adata

BD Vacutainer® Passive Shielding kraujo paėmimo adata sukurta suteikti didžiausią apsaugą nuo adatos dūrio kraujo paėmimo metu. Adatos apsauginis dangtelis nusileidžia automatiškai po pirmojo mėgintuvėlio įterpimo, taip suteikiant apsaugą nuo pat pirmosios mėgintuvėlio įterpimo akimirkos iki produkto utilizavimo. Apsauginis dangtelis uždengia adatą nedelsiant po jos pašalinimo iš paciento, net jeigu adata ištraukiama netikėtai dėl paciento staigaus ar netikėto judesio. Produktas idealiai tinka ten, kur paciento bendradarbiavimo su gydytoju nėra galimybės užtikrinti.



BD Vacutainer® Passive Shielding kraujo paėmimo adatos

Katalogo nr.	Dydis	Ilgis	Spalvos kodas	Parduodamų vienetų kiekis
368636	21 G (0.8 mm)	1" (25 mm)		200 (8x25)
368637	22 G (0.7 mm)	1" (25 mm)		200 (8x25)

Apsauginiai kraujo paėmimo rinkiniai

BD Vacutainer® Safety-Lok™ kraujo paėmimo rinkinys su prijungtu laikikliu

Su prijungtais produktais, laikiklis jau yra sumontuotas, todėl nereikia rankinio adatos ir laikiklio surinkimo. Sterili uždara sistema pristatoma individualiai supakuoti, kad sumažinti kraujo kultūrų užteršimo riziką. Ji idealiai tinka mėginių apėmimui naudojant BD Bactec™ kraujo kultūros butelius.



BD Vacutainer® Safety-Lok™ kraujo paėmimo rinkiniai su prijungtu laikikliu

Katalogo nr.	Dydis	Adatos ilgis	Vamzdelio ilgis	Spalvos kodas	Parduodamų vienetų kiekis
368654	21 G (0.8 mm)	0.75" (19 mm)	7" (178 mm)		200 (4x25)
368652	21 G (0.8 mm)	0.75" (19 mm)	12" (305 mm)		200 (4x25)
368655	23 G (0.6 mm)	0.75" (19 mm)	7" (178 mm)		200 (4x25)
368653	23 G (0.6 mm)	0.75" (19 mm)	12" (305 mm)		200 (4x25)

Apsauginiai kraujo paėmimo rinkiniai

- Apsauga nuo adatos keliamų sužalojimų:
Po sėkmingo dūrio į veną, integruota apsauga užstumiama ant adatos, pilnai ją apsupant. Ji fiksuojasi negrįžtamai su garsiniu spragtelėjimu ant datos.
- Galima aktyvacija viena ranka:
Saugos mechanizmo aktyvacija viena ranka leidžia sutelkti didesnę dėmesį pacientui ir dūrio į veną vietai.
- Universalus:
Kraujo mėginių paėmimui ir trumpalaikiai infuzijai iki dviejų valandų.



BD Vacutainer® Safety-Lok™ kraujo paėmimo rinkiniai be luer adapterio

Katalogo nr.	Dydis	Adatos ilgis	Vamzdelio ilgis	Luer adapteris	Spalvos kodas	Parduodamų vienetų kiekis
367246	21G (0.8 mm)	0.75" (19 mm)	12" (305 mm)	Nėra		200 (4x50)
367247	23G (0.6 mm)	0.75" (19 mm)	12" (305 mm)	Nėra		200 (4x50)
368383	25G (0.5 mm)	0.75" (19 mm)	12" (305 mm)	Nėra		200 (4x50)



BD Vacutainer® Safety-Lok™ kraujo surinkimo rinkiniai su luer adapteriu

Katalogo nr.	Dydis	Adatos ilgis	Vamzdelio ilgis	Luer adapteris	Spalvos kodas	Parduodamų vienetų kiekis
367282	21G (0.8 mm)	0.75" (19 mm)	7" (178 mm)	Su		200 (4x50)
367286	21G (0.8 mm)	0.75" (19 mm)	12" (305 mm)	Su		200 (4x50)
367284	23G (0.6 mm)	0.75" (19 mm)	7" (178 mm)	Su		200 (4x50)
367288	23G (0.6 mm)	0.75" (19 mm)	12" (305 mm)	Su		200 (4x50)
367295	25G (0.5 mm)	0.75" (19 mm)	7" (178 mm)	Su		200 (4x50)

Kraujo paėmimo adatos

BD Vacutainer® PrecisionGlide™ kelių mėginių adata

BD Vacutainer® PrecisionGlide™ adatos gali būti naudojamos keliams mėgintuvėlių mėginiams. BD Vacutainer® PrecisionGlide™ adatos turi pažangų žemo kampo dizainą ir padengtos silikonu, žemos trinties lubrikantu, užtikrinančiu švelnų ir tolygų įvedimą į veną.

Individuali lazerio kokybės kontrolė išlaiko aukščiausius kokybės lygius. BD Vacutainer® PrecisionGlide™ adatos gali būti su 20, 21 ar 22 dydžio adata.

BD Vacutainer® PrecisionGlide™ kelių mėginių adatos

Katalogo nr.	Dydis	Ilgis	Spalvos kodas	Parduodamų vienetų kiekis
360210	22 G (0.7 mm)	1" (25 mm)	■	1000 (10x100)
360211	22 G (0.7 mm)	1.5" (38 mm)	■	1000 (10x100)
360212	21 G (0.8 mm)	1" (25 mm)	■	1000 (10x100)
360213	21 G (0.8 mm)	1.5" (38 mm)	■	1000 (10x100)
360214	20 G (0.9 mm)	1" (25 mm)	■	1000 (10x100)
360215	20 G (0.9 mm)	1.5" (38 mm)	■	1000 (10x100)



Saugios kraujo surinkimo adatos



Katalogo numeris	Dydis	Adatos ilgis	Spalvos kodas	Parduodamų vienetų kiekis
368609	21 G (0.8 mm)	1.25 " (32 mm)	žalia	480 (10 x 48)
368610	22 G (0.7 mm)	1.25 " (32 mm)	juoda	480 (10 x 48)

BD Vacutainer® Eclipse™ kraujo surinkimo adata su iš anksto prijungtu laikikliu

Su šia iš anksto sujungta saugia adata, laikiklis jau sumontuotas ant adatos, todėl nereikia rankiniu būdu surinkinėti adatos ir laikiklio. Tai yra paruošta naudoti kraujo mėginio adata ir laikiklis, tiekiami individualiai supakuoti sterilioje pakuotėje.



BD Vacutainer® Eclipse™ saugios adatos su iš anksto prijungti laikikliu

Katalogo numeris	Dydis	Adatos ilgis	Spalvos kodas	Parduodamų vienetų kiekis
368650	21 G (0.8 mm)	1.25 " (32 mm)	žalia	100
368651	22 G (0.7 mm)	1.25 " (32 mm)	juoda	100

Adapteriai ir laikikliai

BD Vacutainer® vienkartinio naudojimo laikiklis, BD luer adapteris ir adapteriai su iš anksto prijungtais laikikliais

1. BD Vacutainer® Luer adapteris (katalogo nr. 367300) yra sterilus prietaisas su kelių mėginių paėmimo vožtuvu ir sukurta naudoti su kateteriu kraujo paėmimui su BD Vacutainer® kraujo paėmimo mėgintuvėliais.

2. BD Vacutainer® vienkartinio naudojimo laikikliai (katalogo nr. 364815) yra suderinami su visais BD Vacutainer® mėgintuvėliais ir adatomis, įskaitant BD Eclipse™ apsaugines adatas, BD Safety-Lok™ kraujo paėmimo rinkinius ir BD Push Button kraujo surinkimo rinkinius. BD Vacutainer® vienkartinio naudojimo laikikliai taip pat suderinami su BD BACTEC™ kraujo kultūros buteliukais.

3. BD Vacutainer® Luer-Lok™ prieigos prietaisai (katalogo nr. 364902) yra iš anksto surinktas kelių mėginių BD Luer-Lok™ ir laikikliu, kuris yra suderinamas su „female“ tipo luer jungtimis arba IV jungtimis, sukurtomis luer prieigai, ir turi mėlynos spalvos jungtį, skirtą suteikti lengvą diferenciaciją nuo kitų laikikliais paremtų produktų.



4. BD Vacutainer® kraujo perkėlimo prietaisas (katalogo nr. 364810) yra iš anksto surinktas ir lengvai naudojamas prietaisas, sukurtas galvojant apie saugumą. Pastarasis naudojamas mėginio perkėlimui nenaudojant adatos iš švirkšto į vakuuminį mėgintuvėlį ar kraujo kultūros buteliuką bei turi raudonos spalvos jungtį, skirtą suteikti lengvą diferenciaciją nuo kitų laikikliais paremtų produktų.

BD Vacutainer® Luer adapteris

Katalogo nr.	Apibūdinimas	Spalvos kodas	Parduodamų vienetų kiekis
367300	Luer plėtinys kraujo mėginių paėmimui iš kateterių ir perfuzijos rinkinių		1000 (10x100)

BD Vacutainer® Luer adapteriai su iš anksto prijungtais laikikliais

Šie vienkartiniai produktai yra paruošti naudoti, sterilūs, individualiai supakuoti laikikliai su sumontuotu Luer adapteriu.

Katalogo nr.	Apibūdinimas	Spalvos kodas	Parduodamų vienetų kiekis
364902	BD Vacutainer® Luer-Lok™ Access Device („male“ tipo Luer)		200 (2x100)
364810	BD Vacutainer® Blood Transfer Device („female“ tipo Luer)		200 (2x100)

Katalogo nr.	Apibūdinimas	Spalvos kodas	Parduodamų vienetų kiekis
364815	BD Vacutainer® vienkartinis plastikinis laikiklis mėgintuvėliams su 13 mm ir 16 mm diametru, ir BD Bactec™ kraujo kultūros buteliukams		1000 (4x250)
368872	BD Pronto™ Quick Release laikiklis mėgintuvėliams su 13 mm ir 16 mm diametru, ir BD Bactec™ kraujo kultūros buteliukams 	Įvairūs	100 (5x20)
364879	BD Vacutainer® kelių naudojimui plastikinis laikiklis mėgintuvėliams su 13 mm ir 16 mm diametru, ir BD Bactec™ kraujo kultūros buteliukams		1000 (4x250)