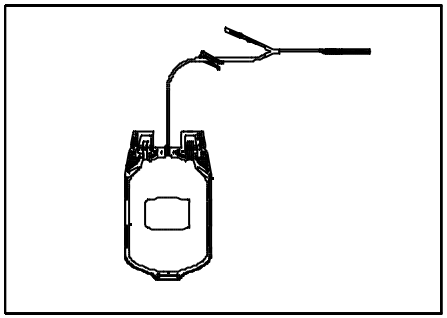
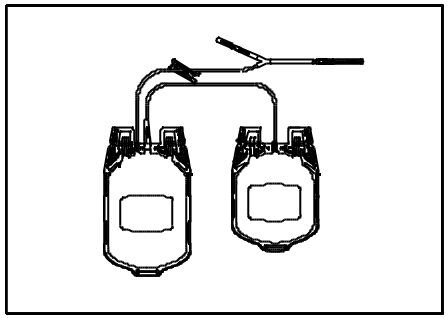
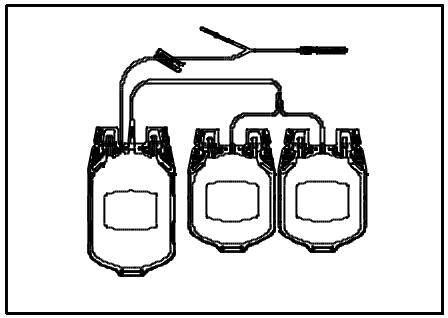
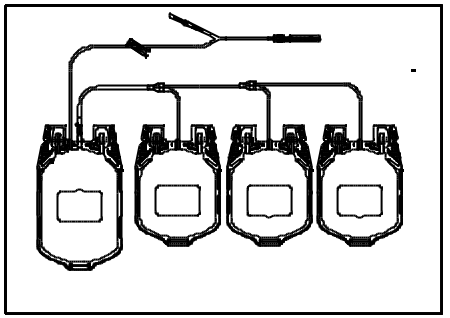
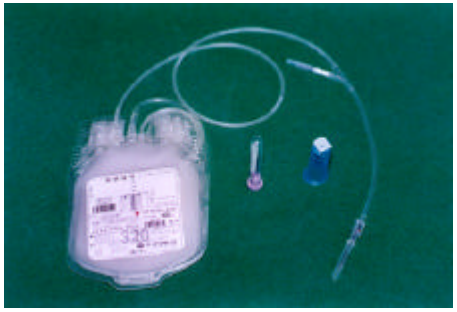
# Blood Bag with Safety Sampling System (Direct Draw Adapter)

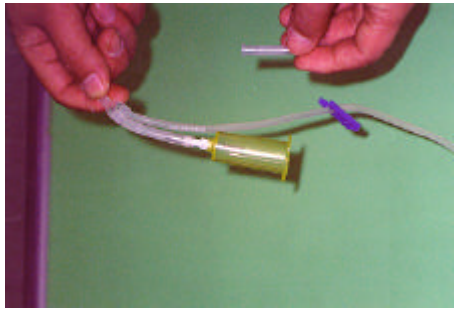
- Compatible with preparation processes during blood collection
- Closed system for sterility
- Safe and efficient for nurses or phlebotomists
- Reduced exposure to Needle-sticks with higher volume collection
- Undiluted Blood Samples lead to better testing result
- Multiple Samples can be collected directly from the Donor
- Better service to the donor
- Save Cost by reusable Pronto™ one-touch Holder
- Minimize loss of whole blood with shorter tubing
- Less Waste
- Compact packaging

BD

# Blood Bag with Safety Sampling System (Direct Draw Adapter)

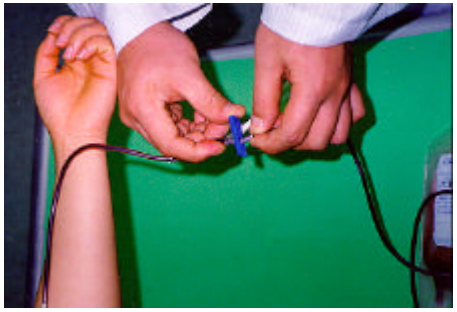


1. Appearance of Safety Sampling System with the Pronto holder



2. Remove protective cap and assemble the Pronto holder before blood sampling

3. Collect whole blood as per your normal procedure



4. After collection, clamp the tube between donor needle and primary bag

5. Collect the sample without anticoagulant into BD Vacutainer, utilizing the unique, DirectDraw Adapter

BD

# Instruction for use of Safety Sampling System

- **Principle**

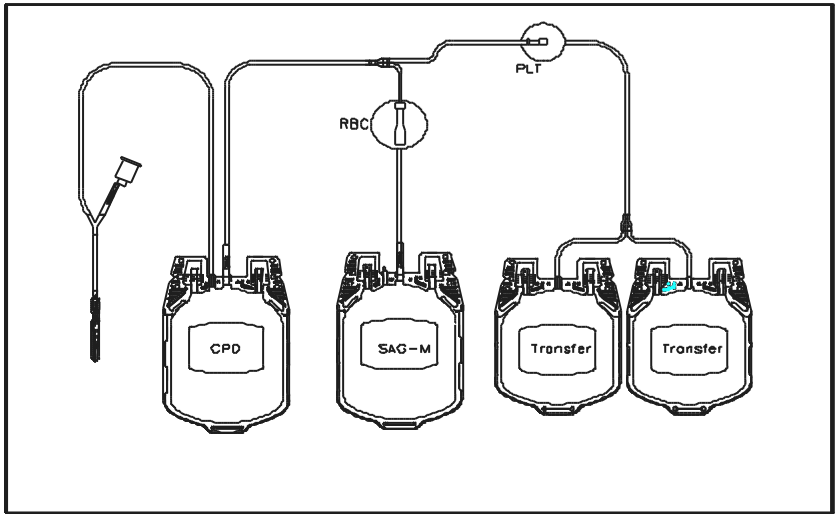
  The BD-Boin Safety sampling system is designed for the phlebotomist's safety from needle stick injury during the blood sampling procedure. It also allows for pure blood samples without anticoagulant for greater efficiency in serologic in-vitro blood testing.

- **Procedure -- Blood Collection using Safety Sampling System**

1) Remove the BD-Boin Blood Bag system from the individual packaging and visually inspect the system as per the Blood Bank's incoming inspection procedure.
2) Affix the blood number labels on each bag and BD Vacutainer tube as per the Blood Bank's standard operating procedure.
3) Adjust the donor scale to desired collection gross weight. Suspend the blood bag system on the donor scale.
4) Clamp the donor tubing between the donor needle and the Y-connector for safe blood sampling.
5) Disinfect the site of phlebotomy with Alcohol and Povidone Iodine.
6) Visually check the tamper-evident of needle cover before use. Remove the needle cover from the hub with a slow, twisting motion. Achieve a successful venipuncture, per the Blood Bank procedure.
7) Release the clamp. Tape the blood bag tubing to the donor's arm.
8) The primary container ( CPD bag) should be mixed frequently.
9) After the proper volume of whole blood is collected, seal the donor tubing between Y-connector for safe sampling system and the primary bag.
10) Remove the needle cover on the Y-connector site. Attach the BD Pronto™ holder for safe blood sampling without anticoagulant.
11) Fasten the BD Vacutainer onto sampling needle and collect blood samples.
12) After taking sufficient samples, release any remaining pressure and remove the donor needle from donor's arm, discarding the donor needle according to biohazard safety procedures.

BD

# Blood Bag with Leukoreduction Filter




- Follows the basic specification for “Blood Bag (CPD/SAG-M) Quadruple”
- Safety Sampling System can be added as an option
- 99.9% of Leukocyte will be removed by using a pre-storage filter (Manufactured by PALL, USA)
- High efficiency filtration in RBC, PC and Plasma
- Filtration within a few hours of blood donation
- No preconditioning of whole blood or RBC before filtration
- Easy to use according to the Blood Bank SOP
- High red cell and platelet recovery
- Improved the quality of blood components
- Efficiently reduced transfusion reaction by Nonhemolytic febrile, Alloimmunization, CMV, GVHD, Immunosuppression

BD

# Instruction for use of Luekoreduction Filter System(1)

- **Principle**

  The BD-Boin Luekoreduction filter bag for whole blood collection, filtration and storage is a closed system. It is intended to be used for the collection of one unit of whole blood and prestorage luekoreduction of red blood cells and platelet rich plasma. This is followed by subsequent storage of the RBC, PC and FFP. The BD-Boin filtration system is available as a CPD/ADD-M system, imparting a shelf life of 42 days to the filtered red cell product.

- **Procedure -- 1. Component preparation**

1) Gently mix the unit thoroughly. Load unit into a centrifuge cup, ensuring that the tubing stays in the top half of the cup. When bags and tubing are positioned in the cup, place the Filter2 (ATSLPL) on the top of the tubing and bags. Place the Filter1 (RCM) on the top of the entire assembly and secure with tape.
2) Centrifuge blood according to the validated centrifuge specification as per centrifuge manufacturer's recommendations, or, as your standard operating procedure indicates.

- **Procedure -- 2. Filtration of Platelet Rich Plasma**

1) Carefully remove unit from the centrifuge cup and place bag (Collection bag) containing RBC's in the BD-Boin plasma separator.
2) Clamp the tubing between the Filter1 (RCM) and the Y-connector. At the same time clamp the transfer tubing between one of the transfer bags and the other Y-connector. Gently release pressure plate.
3) Actuate the BreakAway Valve in the collection bag and express PRP. (Do not apply extra pressure to increase flow rate).
4) When the out-let side of the Filter2 (ATSLPL) turns pink or red, clamp tubing between the Filter2 (ATSLPL) and the Y-connector closest to the transfer bag. Release the BD-Boin separator pressure.
5) Seal tubing between the Y-connectors, directly upstream and downstream of the Filter2 (ATSLPL). Detach and set aside the PRP component for the further processing.
6) Discard the Filter2 ( ATSLPL) and tubing according to biohazard safety procedure.
7) Process PRP into PC as your standard operating procedure.

BD

# Instruction for Use of Luekoreduction Filter System(2)

- **Procedure -- 3. Filtration of Red Blood Cells**

1) Hang ADD-M bag and, ensuring the Filter1 (RCM) is in a vertical position. Actuate the BreakAway Valve on the ADD-M bag to transfer additive solution to the PRC bag (collection bag).
2) Clamp tubing close to the PRC bag (collection bag) in order to avoid the introduction of air into the Filter1 (RCM). Mix red blood cells gently and thoroughly.
3) Hang the red blood cell bag (collection bag), ensuring the Filter1 (RCM) is in a vertical position.
4) Remove the clamp to allow RBC's to achieve gravity flow through Filter1 (RCM) into the final RBC storage bag (had contained SAG-M solution). Do not apply pressure to increase flow rate.

   * For blood stored and filtered at room temperature, filter RBC's mixed with SAG-M at head height NOT to exceed 60 inches/153cm.

   * For blood stored and filtered at 1~6 ℃, filter RBC's mixed with SAG-M at head height NOT to exceed 76 inches/193cm.

   * Filtration must begin within 24 hours of collection and can be accomplished at room temperature or 1~6 ℃.
5) Filtration is completed once the upstream portion of the Fiter1 (RCM) is empty.
6) Seal the tubing between the Filter1 (RCM) and the final PRC storage bag. Detach and discard it and collecting bag according to biohazard safety procedure.
7) Store CPD/SAG-M preserved red blood cells at 1~6 ℃ for up to 42 days and use as indicated.