Technical Specifications of Blood Bags

Single blood bags:

Blood collection bag Made up of DEHP (Di-2-ethyhexyl phthalate) plasticized PVC(polyvinylchloride), collapsible non- vented sterile containers complete with collecting tube for completely closed system to avoid the chances of contamination.

Capacity: single blood bag 450 ml

Design and shape:
1. Flexible pre sterilized
2. Pyrogen free
3. Non toxic, non haemolytic, biocompatible material
4. No risk of contamination and air embloism(close system) with leaks proof seals
5. Slit on both sides of the bags should be enough to accommodate 5-10 ml test tubes.
6. The capacity of the bag should be enough to prevent any ballooning/ rupture of the bag from seam when it is filled up with the requisite volume of blood

Tubing of bag:
1. Flixible non kinking
2. Non sticking
3. Transparent
4. Leak proof
5. The minimum length of tubing from primary bag to the needle should be 80 cm.
6. The tube should have mulitple printed ID/Segment number. The number should be legible and clear
7. A clamp should be provided for closed system

Needle:
1. 16 guge ultra thin walled and straight
2. Sharp, regular and smooth margins and beveled tip
3. Rust proof
4. Tightly fixed with hub coverd with sterile guard
5. Hermetically sealed
6. The needle should not separate from the tube at any point of time, especially while rempving it from the vein for the donor safety

External port:
1. Tamper proof and should not be re-capped
2. Easily accessible

Package:
1. Protective dual packaging (individual & Aluminium) eliminating microbial contamination on surface maintaining the contents of the bag
2. Easy to handle

Anticoagulant and preservative solution:
1. CPDA-1 The quantity of anticoagulant/(63 ml)
2. Clear & colorless
3. No discoloration on storage at room temperature
4. Manufacturer to supply anticoagualnt qaulity check certificate

Label:
1. Non peel- off
2. Heat sealed/ pressure embossed labels
3. Remain attached between room temperature to 4 ˚C with a transparent adhesive
4. Date of manufaturing, date of expiry and lot number must mentioned on each bag
5. The expiry date should be at least 2 years from the date of manufacturing of blood bags and residual shelf life at the time of supply should be at least 3/4th of the total shelf life

Triple blood bags:

Blood collection bag Made up of DEHP (Di-2-ethyhexyl phthalate) plasticized PVC(polyvinylchloride), collapsible non- vented sterile containers complete with collecting tube for completely closed system to avoid the chances of contamination.

Capacity: Triple blood bag :
Primary bag(450 ml **)**
First satellite bag(of 300 ml capacity)
Second satellite bag(of 300 ml capacity) for platelet storage for 5 Days

Design and shape:
1. Flexible pre sterilized
2. Pyrogen free
3. Non toxic, non haemolytic, biocompatible material
4. No risk of contamination and air embloism(close system) with leaks proof seals
5. Slit on both sides of the bags should be enough to accommodate 5-10 ml test tubes.
6. The capacity of the bag should be enough to prevent any ballooning/ rupture of the bag from seam when it is filled up with the requisite volume of blood

Tubing of bag:
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4. Tightly fixed with hub coverd with sterile guard
5. Hermetically sealed
6. The needle should not separate from the tube at any point of time, especially while rempving it from the vein for the donor safety

External port:
1. Tamper proof and should not be re-capped
2. Easily accessible

Package:
1. Protective dual packaging (individual & Aluminium) eliminating microbial contamination on surface maintaining the contents of the bag
2. Easy to handle

Anticoagulant and preservative solution:
1. CPDA-1 The quantity of anticoagulant/(49 ml/63 ml)
2. Clear & colorless
3. No discoloration on storage at room temperature
4. Manufacturer to supply anticoagualnt qaulity check certificate

Label:
1. Non peel- off
2. Heat sealed/ pressure embossed labels
3. Remain attached between room temperature to 4 ˚C with a transparent adhesive
4. Date of manufaturing, date of expiry and lot number must

mentioned on each bag
5. The expiry date should be at least 2 years from the date of manufacturing of blood bags and residual shelf life at the time of supply should be at least 3/4th of the total shelf life

Resistance to distortion:
Filled to normal capacity

- Bag shall withstand a acceleration of 5000g for 30 min at

temperature 4˚C to 24˚C

Bag should be able to withstand temerature upto -80˚C
without breakage