



## Terms of Reference/Technical Specification Clauses

**Item Name:** Safety Blood Collection Sets

### **I- Specifications:**

- Set designed to improve venipuncture safety and to reduce the rate of needle stick injuries
- Compatible with Vacutainer tubes used in LRC BTS.
- It consists of:

#### **1. Vacutainer Tubes General requirements:**

- Blood collection tubes with vacuum.
- Material: PET (PolyEthyleneTerephthalate).
- Cap and Closure: Safety Plastic cap, secure closure, with puncture capability.
- Recapping: The blood collection tube must allow recapping
- Sterilization: Guaranteed sterilization according to ISO standard or equivalent.
- Blood collection tube label: On the blood collection tube label, the following information must be indicated: reference code, Lot number, expiry date, volume, fill level line, and code for recognition of the additive.
- Centrifugation: must be able to be centrifuged as per the brand instructions and recommendations.
- Must be certified with CE-mark and /or PDA proved.

#### ➤ **EDTA Tubes:**

- Spray coated EDTA anticoagulant to block blood coagulation by binding calcium ions.
- Produces whole blood or plasma.
- Size: 13 \* 75 mm.
- Volume: 2 - 4 ml.
- Cap closure must have a unique color which differs from other types of vacuum blood collections tubes

#### ➤ **Gel and Clot activator Serum Tubes:**

- Clot activator tube with gel barrier.
- Spray coated with silicon and micronized silica particles with polymer gel for serum separation.
- Used for serum determinations in chemistry and immunology.
- Size: 13 \* 100 mm.
- Volume: 4 - 6 ml.
- Cap closure must have a unique color which differs from other types of vacuum blood collections tubes.

- 2. Needle holder:** Multiuse standard tube holder with luer lock suitable to adapt the vacuum blood collection needle with the vacutainer tubes.



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### 3. Disposable vacuum blood collection needle:

- Type: Pen type or wings type, for adults and children, company should advise on appropriate dimensions.
  - Material: high quality stainless slip.
  - Sharpened Faceting.
  - Lock: Luer lock or luer slip.
  - Needle valve: safety valve (multi-sampling valve) for multiple tube sampling.
- After completion of the blood collection and withdrawal of the needle from the patient's vein, the safety mechanism must be activated immediately. The clearly audible click indicates that the needle is securely and irreversibly locked in the housing, protecting against accidental needle stick

### II- Training:

Demonstration and continued comprehensive training for lab staff and support services until familiarity with the system.

### III- Documents to be delivered:

- Should provide electronic and hard copies of User Manual (English), Service manual (English) and Complete construction details with respect to material specification.

### IV- Accessories required:

### V – Transport, installation, and setup

Assured by the company.