

Front



## **HELICO Disposable ESR Pipette (Westergren Method)**

- No need to transfer the blood
- Accurate and reproducible results
- Fibrous barrier protects use from hazardous aerosols

### **Instruction for Use:**

The *erythrocyte sedimentation rate* (ESR or sed rate) is a relatively simple, inexpensive, non-specific *test* that has been used for many years to help detect inflammation associated with conditions such as infections, cancers, and autoimmune diseases. The ESR is determined by measuring, in millimetres per hour, the red cells sediment in one hour.

Helico Disposable ESR Pipette is made of clear Polystyrene with markings from 0 to 170 mm. It has a seal-sealing aerosol barrier plug at "0" mark that stops blood from escaping through top of the pipette. The vacuum plug at lower end of pipette ensures optimal vacuum to ensure accuracy of test.

### **Specimen:**

1. Collect 1.6 ml whole blood and add 0.4 ml Sodium citrate 3.8%
- or**
2. Add 0.4 ml saline in 1.6 ml whole blood collected in EDTA Anti-coagulated tube

Blood Collection tube: 12/13 mm x 75 mm

**Procedure:**

1. Mix the blood gently in tube.
2. Gently insert the lower end of ESR Pipette (having the vacuum plug) into the blood collection tube and using continuous force push the pipette down to the bottom of the tube.
3. The blood will automatically rise into the pipette and stop at "0" mark.
4. Place the unit (Tube+ ESR pipette) absolute vertically in ESR Stand.
5. Allow the blood cells to sediment for 60 minutes.
6. At the end of 60 minutes, the numerical results are read in millimetres directly from the imprinted Scale on the pipette.

**Disposal:** Discard the pipette, tubes as per biomedical waste procedure.

**Probable causes for Error in results:**

1. Tube Diameter lower than 12/13 mm or higher than 12/13 mm.
2. Blood not mixed properly before test.
3. Improper anti-coagulant to blood ratio.
4. Re-use of ESR pipette.
5. ESR tube not placed absolutely vertical.

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