WBC Diluting Fluid

Intended Use
WBC Diluting Fluid is used for WBC count.

Summary & Principle
WBC diluting fluid is used for performing the WBC (Leucocyte) count. Glacial acetic acid lyses the red cells. Gentian violet slightly stains the nuclei of the leucocytes. The blood specimen is diluted 1:20 in a WBC pipette with the diluting fluid and the cells are counted under low power of the microscope by using a counting chamber. The number of cells in undiluted blood is reported per cumm (µl) of whole blood.

Reagent/ Contents

Glacial acetic acid	2.00 mL
Gentian Violet (1% w/v)	1.00 gm
Distilled water	97.00 mL
Final pH (at 25°C)	2.2±0.2

**Formula adjusted, standardized to suit performance parameters

Appearance
Purple coloured, clear solution.

Type of Specimen
Clinical samples: Blood

Directions
Draw EDTA anticoagulated blood to 0.5 mark in the capillary end of WBC pipette. Carefully, wipe excess blood outside the pipette by using cotton.
Draw diluting fluid up to 11 mark.
Mix the contents in pipette and after 5minutes by discarding few drops, fill the counting chamber and allow the cells to settle for 2-3 minutes.
Focus on 1 of the "W" marked areas (each having 16 small squares) by turning objective to low powder 10X Count cells in all 4 "W" marked corner squares.

Limitations
1. In some cases, diluting fluid will not be hemolyzed immature RBC so counted WBC.
2. Be careful while loading or charging, do not introduce bubbles into the hemocytometer. It may give false positive results.

Storage and Stability
Store at 15°C-25°C away from bright light. Stability of the WBC diluting fluid is as per expiry date mentioned on label.

Warranty
This product is designed to perform as described on the label and package insert. The manufacturer disclaims any implied warranty of use and sale for any other purpose.

Reference
1. Data on file: UltraCare Diagnostics .

Disclaimer
Information provided is based on our inhouse technical data on file, it is recommended that user should validate at his end for suitable use of the product.

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