

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 \pm 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 5 minutes 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 power 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-30°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: Microxpress®, A Division of Tulip Diagnostics (P) Ltd.

Product Presentation:

Cat. No.	Product Description	Pack Size
207230060500	WBC diluting fluid	500 mL

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.