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3% Acetic Acid with Methylene Blue

Reagent for manual counting of nucleated mammalian cells

Catalog #07060 100 mL

Product Description

3% Acetic Acid with Methylene Blue is recommended for manual counting of nucleated mammalian cells. It will lyse red and white blood cell membranes. The remaining white blood cell nuclei will stain lightly with methylene blue.

Stability and Storage: Store at 15 - 25°C. Shelf life not applicable.

Contains:

- Acetic acid (3%)
- Methylene blue
- Distilled water

This product is hazardous. Refer to the Safety Data Sheet (SDS).

Directions for Use

1. Prepare an appropriate dilution of cells in 3% Acetic Acid with Methylene Blue.
2. Prepare a hemocytometer (e.g. Catalog #100-1181) by first cleaning the chamber surface with alcohol. Wipe dry.
3. Position the coverslip over the chambers. Carefully transfer sufficient volume of the 3% Acetic Acid with Methylene Blue/cell solution to each chamber, using a capillary tube or pipetman. Do not over- or underfill.
4. Begin by counting the cells in one chamber. Count all cells in each 1 mm square of each chamber. If cells are on the border outlining each square, count only the cells on the top and left border of the square.
   NOTE: Each square has a total volume of 0.1 mm^3 (or 10^-4 cm^3, which is approximately equivalent to 10^-4 mL).
5. Determine the cell count (cells per mL) as follows:
   average cell count per square x dilution factor x 10^4 = cell count per mL

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