

Methyl Green-Pyronin Staining Solution

M743378

Storage: Room temperature. Store in the dark.

Introduction:

Methyl Green-Pyronin Staining Solution is commonly used to stain cells or tissue sections, based on the methyl green dye that can bind to DNA and stain nucleus in green or blue-greenish, and the pyronin dye that can bind to RNA in cytoplasm and nucleolus and stain them in red.

Usage method:

1. Sample preparation
 - 1.1 For paraffin sections
 - 1.1.1 Dewax paraffin sections in xylene for 5 minutes.
 - 1.1.2 Replace with fresh xylene and dewax for another 5 minutes.
 - 1.1.3 Anhydrous ethanol for 5 minutes.
 - 1.1.4 90% ethanol for 2 minutes.
 - 1.1.5 70% ethanol for 2 minutes.
 - 1.1.6 PBS for 2 minutes.
 - 1.1.7 Proceed to step 2.
 - 1.2 For frozen sections
 - 1.2.1 Wash frozen sections with PBS for 2 minutes.
 - 1.2.2 Proceed to step 2.
 - 1.3 For cultured cells
 - 1.3.1 Fix cells with 4% Paraformaldehyde Fix Solution for more than 10 minutes.
 - 1.3.2 Wash cells with PBS for 2 minutes.
 - 1.3.3 Replace with fresh PBS and wash for another 2 minutes.
 - 1.3.4 Proceed to step 2.
2. Methyl Green-Pyronin staining
 - 2.1 Stain samples with MGP Staining Solution for 5-10 minutes (The duration of time can be adjusted appropriately).
 - 2.2 Rinse with distilled water 2-3 times for a few seconds each time.
3. Dehydration, clearing, mounting
 - 3.1 Dehydrate samples with acetone thrice (3 dips) for 1-2 seconds each.
 - 3.2 Rinse with acetone/xylene (1:1) twice for 1-2 minutes each.
 - 3.3 Transparent samples with xylene for 1-2 minutes.
 - 3.4 Replace with fresh xylene and clear for 1-2 minutes.
 - 3.5 Use neutral gum or other mounting medium to mount the slides.
 - 3.6 Examine samples by light microscopy. Cell nuclei are stained in green or blue-greenish, while cytoplasm and nucleolus are in red.

Precautions:

1. Prepare 4% paraformaldehyde, 70% ethanol and 95% ethanol. If dehydration, transparency and sealing, xylene, neutral gum or other sealing agent should be provided. If the samples are paraffin sections, 90% ethanol, anhydrous ethanol and xylene should be provided.
2. For first-time users of this product, we recommend performing a preliminary test with 1-2 samples.
3. This product is for R&D only. Not for drug, household, or other uses.
4. For your safety and health, please wear lab coat and disposable gloves during the operation.

