

Reticulocyte Staining Solution

Cat #: A-CSH326

Size: 50mL, 100mL

Storage: Room temperature, avoid light (12 months)

Product Composition

Component	Size		Store at
reticulocyte staining solution	50ml	100ml	10~30°C, and were protected from light

Product Description

Reticulocytes are transitional cells between immature red blood cells and fully mature red blood cells. They contain residual basophilic RNA material in their cytoplasm. When stained with a reticulocyte staining solution, a light blue or dark blue reticular structure can be observed in the cytoplasm under a microscope.

The reticulocyte staining solution consists of new methylene blue or brilliant cresyl blue and is neutral in nature. It is used for vital staining of reticulocytes. The staining results obtained with this solution have a bright and clear background color and are not affected by prolonged staining. This staining solution is only used in the field of scientific research and is not intended for clinical diagnosis or other purposes.

Usage

1. Mix the reticulocyte staining solution with patient's whole blood in a 1:1 ratio and let it stand at room temperature for 10-15 minutes or longer.
2. Prepare blood smears following routine procedures.
3. Observe under a microscope or count at least 1000 red blood cells to determine the number of reticulocytes.

Calculation:

Reticulocyte Percentage = Number of reticulocytes in 1000 red blood cells counted / 1000

Reticulocyte Absolute Count (cells/L) = Reticulocyte Percentage × Red blood cell count (cells/L)

Staining Results

reticulocyte cytoplasm	Light blue or dark blue mesh structure
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Notes

1. This staining method is only applicable for tube method operation.
2. Sufficient staining time is required, and the preparation of blood smears should not be done immediately after mixing. If the room temperature is low, the staining time should be extended accordingly.
3. The blood smears should have a uniform thickness without overlapping red blood cells to avoid affecting the staining results.
4. Fresh whole blood or EDTA anticoagulated blood is required for blood smears staining.
5. For your safety and health, please wear a lab coat and disposable gloves while performing the procedure.
6. The above reagents can be irritating, so handle with care.
7. For your safety and health, please wear a lab coat and disposable gloves while performing the procedure.

Disclaimer

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