

Intended use

Brilliant Cresyl Blue is used for staining reticulocytes (immature red blood cells) and platelets.

Summary

Brilliant Cresyl Blue is a supravital stain used for staining reticulocytes and platelets. It is a staining solution that makes target structures (by staining) in hematological specimen materials valuable for diagnostic purposes.

Principle

Reticulocytes are juvenile red cells, which contain remnants of the ribosomal ribonucleic acid (RNA) that was present in larger amounts in the cytoplasm of the nucleated precursors from which they were derived. Ribosomes have the property of reacting with certain basic dyes such as Brilliant Cresyl Blue to form a blue or purple precipitate of granules or filaments. This reaction takes place only in vitally stained unfixed preparations.

Stages of maturation can be identified by their morphological features. The most immature reticulocytes have the largest amount of precipitable material. In the least immature only a few dots or short strands are seen.

The regenerative capacity of erythrocytes can be monitored with ratio of reticulocytes.

Reagents / Contents

Brilliant Cresyl Blue	1.0 g
Sodium Chloride	0.85 g
Distilled Water	100.0 mL

Appearance: Blue colour solution.

Storage and Stability

Store at 15°C - 25°C away from bright light. Use before expiry date on label.

Materials required but not provided

Clean grease-free glass slide, plastic Pasteur pipette, staining rack, blotting paper, immersion oil, and microscope.

Type of Specimen

Clinical specimen: Blood samples.

Procedure

1. Take 2 or 3 drops of the stain by means of a plastic Pasteur pipette.
2. Add 2–4 volumes of the patient's EDTA-anticoagulated blood to the solution and mix.
3. Keep the mixture at 37°C for 15–20 min.
4. Re-suspend the red cells by gently mixing and make films on glass slides in the usual way.
5. When dry, examine the films without fixing or counter staining.

Interpretation of results

Reticulocytes are identified as fine, deep blue filaments and granules arranged in network.

Warranty

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

Reference

Data on file: UltraCare Diagnostics .



Manufacturer
CAT NO.
Number Lot number
Date of manufacture
Use by (Expiry date)



For In-Vitro Diagnostic use only
Attention: See instruction for use
Stored at 15-25 °C
Authorized Representative in the European Company



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