



# Product Specification

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## BRILLIANT CRESYL BLUE SOLUTION AQUEOUS

**PRODUCT CODE** 811220

### Intended Use

Brilliant cresyl blue solution is used in hematology as staining solution to examine reticulocytes in blood film.

### Principle And Interpretation

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 of 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.

### PARAMETER

### LIMIT

Description	Intense blue solution.
Suitability test	Passes test.

### Directions

1. Add 2-3 drops of Brilliant cresyl blue solution in to 75X10mm plastic tube by plastic Pasteur pipette.
2. Add 2-4 volume of patient's EDTA-anticoagulated blood to Brilliant cresyl blue solution and mix it properly.
3. Keep the mixture at 37°C for 15-20 min.
4. Resuspend the red cells by gentle mixing, and make films on glass slides in usual way.
5. Allow to air dry, and the films are examined without being fixed or counterstained.

### Results

When stained with brilliant cresyl blue the reticulocytes stain individually and display dark blue network and dark blue dots. The reticulocyte count is expressed in relation to 1000 counted erythrocytes (i.e.as %/00).

**Note(s) : Assay (if applicable) method mentioned.**

### WARNING

**Hazard statements:** Not hazardous. No hazards.

**Precautionary statements**

**Prevention:** .....

**Response:**

**Disposal:** .....

**Hazard Pictogram(s) :** .....

IMDG Code :

UN No. :

IATA :

Replace Date 21-Dec-2023