



Leishman's Stain Solution

S018S

Leishman's Stain is used for blood staining.

Composition**

Ingredients

Leishman stain	0.150 gm
Methanol, absolute	100.000 ml

**Formula adjusted, standardized to suit performance parameters

Directions

- 1) Freshly prepare and rapidly air dry blood film.
- 2) Cover the film with Leishman's Stain (S018S) and allow to act for 1 minute. Methanol in the stain fixes the preparation.
- 3) Add double the volume of distilled water to the slide and mix.
- 4) Allow the diluted stain to act for 10-12 minutes.
- 5) Wash the film with distilled water or phosphate buffer of pH 7.0, drain and dry in air and examine.

Principle And Interpretation

Leishman stain, is used in microscopy for staining blood smears. It provides excellent stain quality. It is generally used to differentiate and identify leucocytes, malaria parasites, and trypanosomas.

It is based on a methanolic mixture of "polychromed" methylene blue. (i.e. demethylated into various azures) and eosin. The methanolic stock solution is stable and also serves the purpose of directly fixing the smear eliminating a prefixing step.

Quality Control

Appearance

Blue coloured solution.

Clarity

Clear without any particles

Microscopic Examination

Blood staining is carried out and staining characteristic is observed under microscope by using oil immersion lens.

Results

Nuclear & Basophilic cytoplasmic components	Blue
Neutrophilic Granules	Lilac
Eosinophilic Granules	Orange
Nucleoli	Blue-violet
Red cells	Pink
Mature Monocytes	Grey blue kidney shaped
Lymphocytes	Blue with purple nucleus

Storage and Shelf Life

Store below 30°C in tightly closed container and away from bright light. Use before expiry date on label.

Revision : 1 / 2015

Disclaimer :



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