

Technical Data

Hematoxylin (Delafield's)

S014

Hematoxylin (Delafield's)is used as staining solution for Blood films for spirochaetes, Protozoa and other purpose.

Composition**

Ingredients

Haematoxylin 4.0 gm
Alcohol 95% 25.0 ml
Saturated ammonium alum solution 400.0 ml
Glycerine 100.0 ml
Methyl alcohol 100.0 ml

Directions

Procedure:

- 1. Flame the slide and place in Xylene for 3-4 minutes. Repeat xylene treatment with agitation.
- 2. Dip in 100% absolute alcohol for 30-60 seconds. Next dip in 90%,80% and in 70% absolute alcohol. Wash in tap water and rinse in distilled water.
- 3. Stain with Haematoxylin Delafields (S014) for 15 minutes. Wash in tap water.
- 4. Dip in 0.5%(v/v) hydrochloric acid.
- 5. Rinse in tap water for 30-60 seconds.
- 6. Dip in dilute ammonia water till section appears blue.
- 7. Wash in tap water and then rinse in 95% alcohol.
- 8. Agitate in eosin solution for 10-60 seconds. Drain stain solution.
- 9. Dip slide in 70% alcohol for 30-60 seconds.
- 10. Place in 95% alcohol for 30-60 seconds.
- 11. Place in absolute alcohol 2 changes (30-60 seconds)
- 12. Place the slide twice in xylene for 30-60 seconds.
- 13. Drain excess xylene and mount on DPX or Canada balsam with a cover slip.

The first 2 steps of the procedure are collectively referred to in all staining procedures as "deparaffinize." The last3- 8 steps are referred to in all staining methods as "dehydrate, clear, and mount."

Principle And Interpretation

Haematoxylin - Eosin is the most commonly used stain, which is specific for certain substances of diagnostic importance. Here, acid reacting components of the cell combine with alkaline dyes and the alkaline area react with acid dyes. This stain is available for amyloid, lipids, inorganic substances such as iron and calcium, pigments like melanin and hemosiderin, carbohydrates and mucopolysaccharides.

Quality Control

Appearance

Violet coloured solution.

Clarity

Clear without any insoluble particles.

Microscopic Examination

Blood staining is carried out where hematoxylin is used as one of the stains and staining characteristics are observed under microscope by using the oil immersion lens.

^{**}Formula adjusted, standardized to suit performance parameters

HiMedia Laboratories Technical Data

Results

Nuclei : blue Cytoplasm : pink

Storage and Shelf Life

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

Reference

1.Clark G (Ed) 1981, Staining Procedures, 4th edition, Published for the Biological Stain Commission by Williams & Wilkins, London

2)Bauer J.D., Ackermann P.G. and Toro G. (Eds.), 1974, Clinical Laboratory Methods, 8th ed., The C.V. Mosby Co., St. Louis.

Revision: 1/2011

(€

Disclaimer :

User must ensure suitability of the product(s) in their application prior to use. Products conform solely to the information contained in this and other related HiMedia™ publications. The information contained in this publication is based on our research and development work and is to the best of our knowledge true and accurate. HiMedia™ Laboratories Pvt Ltd reserves the right to make changes to specifications and information related to the products at any time. Products are not intended for human or animal or therapeutic use but for laboratory, diagnostic, research or further manufacturing use only, unless otherwise specified. Statements contained herein should not be considered as a warranty of any kind, expressed or implied, and no liability is accepted for infringement of any patents.