2-4. Modified Nocht's Azure-Eosin (Refs 1, 2)

Staining Procedures For Plastic Embedded Tissue
Verified at the Applications Laboratory of the Biomedical Division, Sorvall Microtomes

SOLUTIONS:

0.1% Azure A
- 0.2g Azure A
- 200.0ml Distilled water

0.1% Eosin B
- 0.2g Eosin B
- 200.0ml Distilled water

0.1 M Citric Acid
- 21.0g Citric acid
- qs to
- 1000.0ml Distilled water

0.2 M Disodium Phosphate
- 28.4g Disodium phosphate
- qs to
- 1000.0ml Distilled water

Working Solution
- 25.0ml Distilled water
- 8.0ml Azure A, 0.1%
- 8.0ml Eosin B, 0.1%
- 1.2ml Citric acid, 0.1 M

    Disodium phosphate to make pH 4.8 to 5.2 (approx. 0.8ml). Lower pH levels give redder results, higher levels more blue.
- 5.0ml Acetone

    Filter. Solution stable for 1-2 weeks. May need refiltering each week.

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STAINING PROCEDURE:

1. Stain approximately 1 hour in working solution. (Overstaining is not possible.)

Blow dry.
Mount.

RESULTS:

Cell granules, microorganisms, nuclei: similar to Giemsa (2-6).

Warning: Some of the chemicals used for the staining procedures given in this section may be hazardous if misused. For this reason, read and observe all warnings and cautions provided by the manufacturer for each chemical before proceeding with a staining procedure.

Note: In order to prevent sections from loosening from the slides during staining, all sections should be heat-fixed (60ºC to 100ºC) to the slides for a minimum of 2-5 minutes prior to staining, preferably at the time the sections are mounted on the slides.

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