

PATHOLOGY CORE

Special Stain Protocol: Nissl Stain

Purpose:

The purpose is to highlight Nissl bodies.

Positive Control Tissue:

Brain tissue

Tissue Fixative:

10% Formalin fixed tissue

Reagents Required:

Ethanol

- Vendor – Epredia
- Catalog number – 6201

Cresyl Echt Violet

- Vendor – Poly Scientific R&D Corp
- Catalog number – s167C-16OZ

Solution Preparation:

0.1% Cresyl Echt Violet Solution: 40mL Just before using, add 10 drops of 15% glacial acetic acid then filter.

Protocol:

1. Deparaffinize the slides in 2 changes of Xylene, 5 minutes each
2. Rehydrate the slides in ascending changes of alcohol (100%→70%), 2 minutes each
3. Hydrate the slides in 3 changes of distilled water, 2 minutes each
4. Heat Cresyl Echt Violet solution in oven at 55C for 10 minutes
5. Place slides in filtered heated Cresyl Echt Violet for 3 minutes
6. Wash in 2 changes of distilled water
7. Quick dips in 95% and absolute alcohol to dehydrate
8. Clear in xylene, and mount in a synthetic resin medium

Interpretation:

Nuclei and Nissl bodies – Purple

References:

Theory and Practice of Histotechnology



**Children's Hospital
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RESEARCH INSTITUTE

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