



KIDDRC
Histology Services
Protocols

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LUXOL FAST BLUE, CRESYL VIOLET

Acetic Acid Solution, 10%

Acetic acid, glacial	10ml
Distilled water	90ml

Luxol fast blue

luxol fast blue	0.1g.
95%Ethanol	100ml
10% acetic acid	0.5ml

Dissolve the dye in alcohol, then add 10% acetic acid, filter, the solution is stable.

Cresyl violet 0.1%

Cyresyl violet	0.1g
Distilled water	100ml

Just before use, add 15 drops of 10% acetic acid solution, filter, and preheat.

This solution is not very stable, so do not prepare a large amount.

Lithium Carbonate Solution, 0.05%

Lithium carbonate	0.25g
Distilled water	500ml

1. Deparaffiniz(xylene substitute) sections and hydrate to 95% alcohol.
2. Stain in Luxol Fast Blue solution 57°C overnight.
3. Wash in 95% alcohol.
4. Wash in distilled water.
5. Differentiate in saturated lithium carbonate solution . (3min.)
6. Continue the differentiation in 70% alcohol solution until the gray and white matter can be distinguished.
7. Wash in distilled water. Check differentiation under microscope and repeat 5-7 if necessary.
8. Stain in CresylViolet solution 5-10 minutes. Filter and preheat cresyl violet solution to 57c just before use.
Keep hot during staining.
9. Differentiated in several changes of 95% ethanol .
10. Dehydrate in absolute alcohol, clear in xylene, and mount with synthetic resin. (I use Histo-permount.)