

Bile Stain, Hall's Method – Technical Memo

SOLUTIONS:Fouchet Reagent
Van Gieson Stain**250 ml**
Part 1095A**500 ml**
Part 1095B
Part 1404A**1 Liter**
Part 1404BAdditionally Needed:Bile Control Slides Part 4060
Xylene, ACS Part 1445
Alcohol, Ethyl Denatured, 100% Part 10841
Alcohol, Ethyl Denatured, 95% Part 10842

For storage requirements and expiration date refer to individual product labels.

APPLICATION:

Newcomer Supply Bile Stain, Hall's Method is for the demonstration of bile (bilirubin) substances in tissue sections and to distinguish bile pigments from other tissue pigments. The acidity of Fouchet Reagent works to oxidize bilirubin to biliverdin, resulting in a green color development with the Van Gieson Stain serving as a complimentary counterstain.

METHOD:**Fixation:** Formalin 10%, Phosphate Buffered (Part 1090)**Technique:** Paraffin sections cut at 5 microns**Solutions:** All solutions are manufactured by Newcomer Supply, Inc.

All Newcomer Supply stain procedures are designed to be used with Coplin jars filled to 40 ml following the staining procedure provided below.

STAINING PROCEDURE:

1. Filter Fouchet Reagent with Grade 1 filter paper prior to use.
2. Deparaffinize sections thoroughly in three changes of xylene, 3 minutes each. Hydrate through two changes each of 100% and 95% ethyl alcohols, 10 dips each. Wash well with distilled water.
 - a. See Procedure Notes #1 and #2.
3. Place slides in freshly filtered Fouchet Reagent for 5 minutes.
4. Wash in three changes of tap water; rinse in distilled water.
5. Stain sections in Van Gieson Stain for 5 minutes.
6. Rinse slides quickly in 95% ethyl alcohol.
7. Dehydrate in two changes each of 95% and 100% ethyl alcohol. Clear in three changes of xylene, 10 dips each; coverslip with compatible mounting medium.

RESULTS:Bile/bilirubin Emerald green to olive drab
Connective tissue Pink to red
Background Yellow**PROCEDURE NOTES:**

1. Drain staining rack/slides after each step to prevent solution carry over.
2. Do not allow sections to dry out at any point during staining procedure.
3. If using a xylene substitute, closely follow the manufacturer's recommendations for deparaffinization and clearing steps.