**UW Medicine - Pathology**

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Hall's Method for Bile Pigments

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| Adopted Date: 06/21/05  Review Date: 09/03/10  Revision Date: 04/11/13 |

PURPOSE

To identify the method for performing the special stain of Hall's method for bile pigments.

PROCEDURE

**Fixation:**

10% buffered neutral formalin.

**Sectioning:**

Paraffin sections at 4 microns.

**Solutions:**

(Use Type II de-ionized water for all solution preparation.)

**25% Trichloracetic Acid**

Trichloracetic acid 25gms

Distilled water 100mls

Stable for six months. Discard after use.

**10% Ferric Chloride**

Ferric chloride 40gms

Distilled water 400mls

Stable for four months. Discard after use.

**Fouchet’s Reagent**

Trichloracetic acid, 25% 30 ml

Ferric chloride, 10% 10 ml

Make fresh just before use. This is enough for six slides. Discard after use.

**1% Acid Fuchsin**

Acid fuchsin, (CI # 42685) 1gm

Distilled water 100mls

Stable for four months.

**Picric Acid, Saturated Aqueous**

Picric Acid 2.1 gm

Distilled water 100 ml

***Caution -*** Picric acid is explosive.

**Van Gieson’s**

Acid fuchsin, 1% aqueous 2.5 mls

Picric acid, saturated aqueous 50 mls

Stable for one month.

**Procedure:**

1. Deparaffinize and hydrate slides to distilled water.
2. Place slides in Fouchet’s reagent for five minutes. Discard after use.
3. Wash in running water.
4. Rinse in distilled water.
5. Van Gieson’s solution for five minutes.
6. Dehydrate in 95% and absolute isopropyl alcohol.
7. Clear in xylene and mount.

**Results:**

Biliverdin green

Collagen red

Muscle yellow

REFERENCES

Luna, Lee G.: *Manual of Histologic Staining Methods of the AFIP,* McGraw-Hill Book Co., 1968, pg. 174.

Written By: Director Approval:

(Signature and Date) (Signature and Date)

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Histology Supervisor