

## TECHNICAL LEAFLET

**Principle of method**

Demonstration of bile pigment by oxidation of bilirubin to biliverdin (green pigment).

Each kit contains the following reagents:

Trichloroacetic acid reagent 5 x 20ml Ferric chloride reagent 1 vial VG Stain 2 x 30ml  
Pipette x 1ml Expiry Date labels x 5 Technical leaflet/ MSDS short form x 1

**Storage & stability**

Keep original and prepared reagents in the kit packaging provided and ensure that the nozzles/caps are closed to prevent evaporation & oxidation from the air. Store the kit at room temperature in a darkened cupboard. The kit reagents will remain stable in these conditions. This kit is for in-vitro diagnostic use only.

**Preparation of reagents and usage information**

Prepare Bile Pigment Stain fresh each month or when required. Reagent quantities can be adjusted down if required to prepare only very small amounts.

General guide : Transfer the contents (20ml approx) of 1 bottle of Trichloroacetic acid reagent to the empty reagent bottle in the kit using the pipette provided transfer 1ml of Ferric chloride reagent to it, replace cap and mix well. Apply label (provided) and give 30 days expiry date.

Use a known positive control with the test slide to confirm that the reagent system is working.

**Method**

- 1 - Bring sections to distilled water.
- 2 - Flood test slide and control with Bile Pigment reagent (or use small staining jar) . Stain for 10-15 minutes
- 3 - Wash well in running water for about 1 minute with final few seconds rinse in deionised water.
- 4 - Flood slide with Van Gieson (VG) counterstain 1-2 minutes. Rinse well in tap water and examine.
- 5 - Mount in synthetic resin if required.

The method given in this leaflet is designed as a general guide only and should be modified to suit the samples being processed to obtain optimal staining & rinse times.

**Results**

Bile pigments	Deep Green to Blue Green
Muscle	Yellow
Collagen	Red

GCC Diagnostics guarantees that the highest quality reagents are supplied with this product to give reliable results within the lifetime of this kit stored as directed. The user should however, determine the suitability of this product for their intended use.

**Unsatisfactory performance**

As part of our duty to monitor product performance and our policy of continual improvement, please report to us any unsatisfactory performance you may experience with this product. In the event of any reagent degrading before expiry of shelf life please contact us for a replacement

**MSDS Section**

Trichloroacetic acid reagent is an aqueous solution containing acidic components (TCA) <30%

Ferric chloride reagent is an aqueous solution FeCl<sub>3</sub> <40%

Van Gieson Reagent is an aqueous solution of picric acid <2% containing organic dyestuffs.

When using this product observe the usual rules for the safe handling and use of laboratory reagents, wear suitable body, face and eyes protection. Ensure eye bath station is nearby. There is a potential danger of liquid reagent squirting out of the nozzle of the bottle by accident or in mis-use, be aware of this potential danger. Keep top on reagent bottles at all times when not in use.

**Van Gieson Reagent**

H301+311+332 Toxic if swallowed, by skin contact and inhalation. H319 Causes serious eye irritation. P260 Do not breathe vapour. P262 Do not get in eyes, skin, clothing. P285 In case of inadequate ventilation, wear respiratory protection.

IF SWALLOWED - rinse mouth with water, seek urgent medical attention. IF INHALED - move to clear air zone. IF ON SKIN OR IN EYES - rinse with soap and water and apply eye bath. P314 Get medical attention if you feel unwell. This reagent contains picric acid, which can be explosive and sensitive to friction if allowed to dry - It may form explosive compounds with metallic components such as sink parts etc. Be aware of these risks. Keep container closed, in a safe place and clear up spills with soft cloths immediately, and rinse away to sewer with high volumes of water.

Trichloroacetic acid Reagents, Ferric Chloride reagent, Bile Pigment reagent.

Corrosive Liquids , aqueous. H314 Causes severe skin burns and eye damage. H302+H312+H320 Harmful if swallowed, by skin contact and inhalation. P233 Keep container tightly closed. P210 Keep away from sources of ignition. P262 Do not get in eyes, skin, clothing. IF SWALLOWED - rinse mouth with water, seek urgent medical attention. IF INHALED - move to clear air zone. IF ON SKIN OR IN EYES - rinse with soap and water and apply eye batch. Seek medical attention if you feel unwell.

#### **Waste disposal of reagents**

All reagents in this kit maybe disposed of down the public sewer system by dilution with water, however check with local sewerage authority about the disposal of small amounts of picric acid residues.

The cleaned empty packaging should be recycled as polyethylene, cardboard, paper.

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