

## Trichrome Stain (Blue)

**Description:** The Trichrome Stain (Blue) is a single solution trichrome stain that stains collagen blue and muscle red. It is the trichrome stain component of ScyTek’s Trichrome Stain Kit ( Modified Gomori’s) which is useful in the assessment of the degree of fibrosis in liver sections among many other histological applications.

**Results:** Collagen: Blue  
Muscle and Hepatocytes: Red

**Uses/Limitations:** Not to be taken internally.  
For In-Vitro Diagnostic use only.  
Histological applications.  
Do not use if reagents become cloudy.  
Do not use past expiration date.  
Use caution when handling reagents.  
Non-Sterile.

**Control Tissue:** Liver  
Muscle  
GI tract

**Availability/Contents:**  
Pricing can be found online at [www.scytek.com](http://www.scytek.com)

<u>Item #</u>	<u>Volume</u>
TGB125	125 ml
TGB500	500 ml
TGB999	1000 ml

Please contact for OEM and bulk pricing.

**Precautions:** Avoid contact with skin and eyes.  
Harmful if swallowed.  
Follow all Federal, State, and local regulations regarding disposal.

**Storage:** Room Temperature (18-25°C)

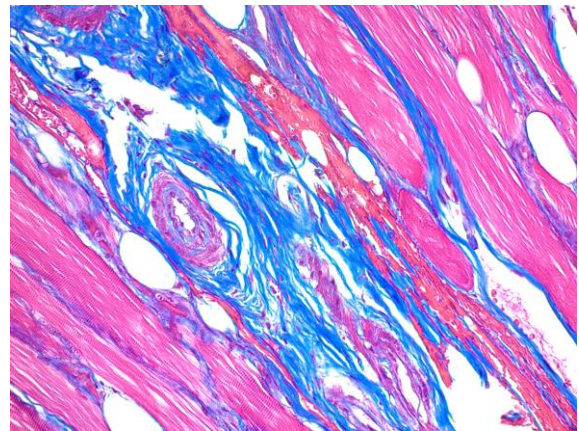


Figure 1. Trichrome Staining with Trichrome Stain (Blue) in Human skeletal muscle.

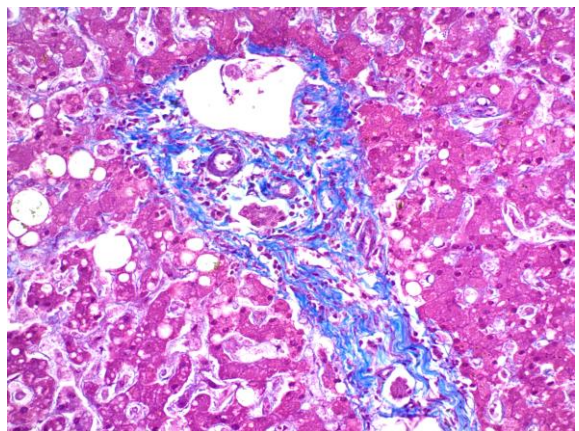





Figure 1. Trichrome Staining with Trichrome Stain (Blue) in Human Liver.

Storage: 18° C  25° C

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**Procedure: (ScyTek's entire TRG-1 Stain kit that includes Trichrome Stain (Blue):**



1. Deparaffinize sections if necessary and hydrate to distilled water.
2. Preheat Bouin's Fluid in a water bath to 62° - 64° centigrade in a fume hood or very well ventilated area.
3. Place slides in preheated Bouin's Fluid for 60 minutes followed by a 10 minute cooling period.
4. Rinse slide in tap water until all yellow is removed and section is completely clear.
5. Rinse 1 time in distilled water.

Note: Use mixed Hematoxylin, Weigert's Iron immediately and dispose of directly thereafter.

6. Mix an equal volume of Hematoxylin, Weigert's Iron (Parts A and B) and apply to tissue section for 5-10 minutes.
7. Rinse slide in tap water for 2 minutes.
8. Apply Acid Alcohol Solution (0.5%) to slide for 5 seconds to adjust pH and remove excess stain.
9. Rinse slide in tap water for 1 minute.
10. Rinse slide 1 time in distilled water.
11. Apply Trichrome Stain (Blue) to tissue section and incubate for 15 minutes.
12. Rinse slide quickly in distilled water.
13. Apply Acetic Acid Solution (0.5%) to tissue section for 10 seconds.
14. Rinse slide using absolute alcohol.
15. Dehydrate in 2 changes of absolute alcohol, clear, and mount in synthetic resin.

**References:**

1. Esendagli, Gunes, Digidem Yoyen-Ermis, Emil Guseinov, Cigdem Aras, Cisel Aydin, Aysegul Uner, Erhan Hamaloglu, and Derya Karakoc. 2018. "Impact of Repeated Abdominal Surgery on Wound Healing and Myeloid Cell Dynamics." *Journal of Surgical Research* 223 (March): 188–97. <https://doi.org/10.1016/j.jss.2017.11.030>.
2. Sun, Zuyue, Jill Schriewer, Mingxin Tang, Jerry Marlin, Frederick Taylor, Ralph V. Shohet, and Eugene A. Konorev. 2016. "The TGF- $\beta$  Pathway Mediates Doxorubicin Effects on Cardiac Endothelial Cells." *Journal of Molecular and Cellular Cardiology* 90 (January): 129–38. <https://doi.org/10.1016/j.yjmcc.2015.12.010>.
3. Gomori, G.L., A rapid one-step trichrome. *Amer J of Clinical Pathology*. Vol. 20: page 661, 1950.
4. *Manual of Histologic Staining Methods of AFIP*. 3rd Edition, McGraw-Hill Publishing. Page 93, 1968.
5. Elbadawi, A., Hexachrome modification of Movat's stain. *Stain Technology*, Vol. 51: pages 249-253, 1976.
6. Carson, F.L., *Histotechnology; A Self-Instructional Text*, 2nd Edition. ASCP Press, Chicago, IL. Pages 117-121, 1996.
7. Tretheway, D., et al. Should Trichrome Stain Be Used on All Post-Liver Transplant Biopsies with Hepatitis C Virus Infection To Estimate the Fibrosis Score? *Liver Transplantation*, May; 14(5): pages 695-700, 2008.

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