

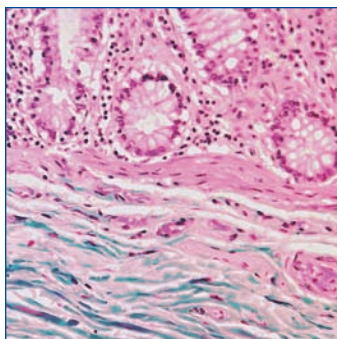
Stains & Staining Kits



Gomori's Trichrome Stain Kit

Catalog #24205

Gomori's One Step Trichrome refers to the multiple stain reaction of this reagent only. However, adequate staining of all cell components requires several other solutions to obtain balance in the tissue.



Human colon tissue.

The mordant with Bouin's Fixative is used to drop the pH and for protein interaction in the section. While this mechanism is not clear the stain works best with this step included. The use of Weigert's Iron Hematoxylin for nuclear detail is the choice for this stain. The acid step to differentiate at the end is critical for showing fine muscle fibers. The usual acid is Acetic Acid and does produce a good differentiation of the fibers; the use of Hydrochloric Acid is better and defines the fibers more clearly. The choice of acid is for the laboratory to decide based on the requirements of the investigator or pathologist.

Technical Data Sheet #389

Contents of kit:

• Bouin's Fixative	250ml
• Weigert's Iron Hematoxylin Solutions	
Solution A	250ml
Solution B	250ml
• Gomori's One Step Trichrome	250ml
• 0.5% Glacial Acetic Acid aqueous	250ml
• 0.5% Hydrochloric Acid aqueous	250ml

Results:

Nuclei - black

Cytoplasm, Keratin, muscle fibers - red

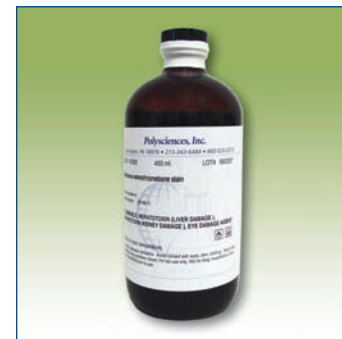
Collagen and mucus - green or blue

Description	Size	Catalog #
Gomori's Trichrome Stain Kit	1 kit	24205-1

Villanueva Osteochrome Bone Stain

Catalog #16280

Villanueva Bone Stain gives uniform and reproducible results for mineralized or undecalcified bone. It can be used in staining fresh or fixed, unembedded or plastic-embedded sections of bone. This staining method has been used effectively in research of new bone formation in hydroxyapatite implants and bone grafts. In addition, it should prove useful in the study of age-related bone loss, osteoporosis and different metabolic bone diseases.



Villanueva Bone Stain is inexpensive to use since it does not require special apparatus or complicated procedures. Stock solutions are stable at room temperature for up to one year. Bone specimens are fixed in 70% ethanol, but 10% buffered formalin is permissible. Avoid fixatives containing dichromates, heavy metal or acid, which can interfere with the staining. *Technical Data Sheet #273*

Results:

Osteoid seams - transparent green to jade green or homogeneous red

Zone of demarcation - orange-red

Low-density bone - red

Moderately permeable bone - orange

Osteocytes, canaliculi, halo volumes - red

Nuclei of osteoblasts, osteoblasts - greenish blue to dark purple

Cytoplasm - green or light green

Description	Size	Catalog #
Villanueva Osteochrome	450ml	16280-450
Bone Stain		

Learn more about Polysciences' superior line of BioSciences products, request our free catalog by visiting www.polysciences.com