

Comparative Pathology Laboratory
Department of Pathology • College of Veterinary Medicine • University of Georgia®

Special Stains Available	
Pathogens	
Mycobacteria	Acid Fast
Gram negative & Gram positive bacteria	Lillie Twort; Gimenez
<i>Histoplasma capsulatum</i>	Giemsa
Bacteria: <i>Leptospira</i> sp., <i>Helicobacter</i> sp., CAR bacillus	Warthin Starry
Fungi	GMS, PAS
Neural Tissue	
Axons	Bielchowsky's; Bodains
Nerve fibers and neurofibrils	Holmes
Glial fibers in areas of gliosis	Holzer
Myelin	Luxol Fast Blue
Argyrophil granules in neurosecretory tumors	Grimelius
Extracellular Matrix	
Reticular fibers	Gomori's reticulum
Elastic Fibers and Mast cells	Luna
Collagen	Masson's trichrome; Movats Pentachrome
Elastic Fibers	Verhoef van Gieson; Movat's Pentachrome
Fibrin	PTAH (Phosphotungstic acid hematoxylin); Fraser Lendrum
Materials Deposited in Tissues	
Amyloid	Congo Red
Copper stores in tissue	Copper
Melanin	Fontana Masson; Schmorl's
Glycogen	PAS (Periodic acid-Schiff) with and without diastase
Glycoprotein macromolecules	PAS (Periodic acid-Schiff) with and without diastase
Iron	Perl's iron
Calcium	von Kossa
Fat	Oil Red O; Sudan IV
Hemoglobin	Okajima
Bile	Hall's
Mucin	Alcian Blue; Mayer's mucicarmine; Movat's Pentachrome; Safranin O
Cellular Components	
DNA	Feulgen reaction, Methyl Green Pyronin Y; Toluidin Blue
RNA	Methyl Green Pyronin Y
Nuclei	Safranin O
Glomerular basement membrane	PAM (Periodic acid-silver methenamine)
Mast cell granules	Safranin O; Giemsa
Sulfonated polysaccharides	Toluidin Blue
Myopathic changes (nemaline rods, ragged red fibers)	Gomori's trichrome
Blood film	Giemsa
Cellular details in heavily pigmented tissue sections	Melanin bleach
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