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G. CYTOPLASMIC GRANULE STAINS

PANCREATIC ISLET CELL STAINS

PRODUCT NO.	STAINING METHOD/REAGENTS
	MALLORY-HEIDENHAIN AZAN-GOMORI'S MODIFICATION FOR ISLET CELLS (1939) Alpha, beta and D-cells of the islets of Langerhans
G - 450 - 1	Azocarmine Staining Solution, 0.1%
*G - 450 - 2	Aniline-Alcohol, 1% Poison Pak!
G - 450 - 3	Ferric Ammonium Sulfate, 5%, Aqueous
G - 450 - 4	Aniline Blue - Orange Solution
*G - 450 - 5	Orange G, 0.2% in Alcohol
	PHOSPHOTUNGSTIC ACID HEMATOXYLIN (PTAH) <i>Levene and Feng (1964); Mallory (1938)</i> Alpha cell granules in humans and animals
G - 452 - 1	Potassium Permanganate, 0.3%, Aqueous
*G - 452 - 2	Sulfuric Acid, Concentrated
G - 452 - 3	Potassium Metabisulfite, 4%, Aqueous
G - 452 - 4	Ferric Ammonium Sulfate, 4%, Aqueous
G - 452 - 5	PTAH Staining Solution
	ALDEHYDE-FUCHSIN METHOD Gomori (1950) Beta cells and functional beta cell tumors
G - 454 - 1	Lugol's Iodine Solution
G - 454 - 2	Sodium Thiosulfate, 5%, Aqueous
*G - 454 - 3	Aldehyde-Fuchsin Staining Solution

*denotes extra hazard charge

MAST CELL STAINS

PRODUCT NO.	STAINING METHOD/REAGENTS
	LUNA'S METHOD FOR MAST CELLS <div style="text-align: right;">Mast cells and elastic fibers</div>
* G - 470 - 1	Aldehyde Fuchsin Solution
* G - 470 - 2A	Weigert's Iron Hematoxylin A &
G - 470 - 2B	Weigert's Iron Hematoxylin B
* G - 470 - 3	Methyl Orange Solution, Sat'd.
	TOREN'S METHOD FOR MAST CELLS (1963) <div style="text-align: right;">Mast cell granules, collagen, cartilage, muscle, elastic fibers, etc.</div>
* G - 472 - 1	Giemsa Solution
G - 472 - 2	Acetic Acid, 0.5%, Aqueous
G - 472 - 3	Pollack's Trichrome Solution

OTHER GRANULE STAINS

PRODUCT NO.	STAINING METHOD/REAGENTS
	TOLUIDINE BLUE FOR MAST CELLS <i>Carson (1990)</i>
G - 473 - 1	Toluidine Blue, 1%, Aqueous
	METHENAMINE SILVER METHOD FOR ARGENTAFFIN CELLS <i>Burtner and Lillie (1949); Gomori (1948)</i> <div style="text-align: right;">Argentaffin granules of enterochromaffin cells</div>
G - 481 - 1	Weigert's Iodine Solution
G - 481 - 2	Sodium Thiosulfate, 5%, Aqueous
*G - 481 - 3A	Silver Nitrate, 5%, Aqueous
G - 481 - 3B	Methenamine, 3%, Aqueous
G - 481 - 4	Borate Buffer, pH 7.8
G - 481 - 5	Gold Chloride, 0.1%, Aqueous
G - 481 - 6	Saffranin O Solution, 0.1%
	FONTANA-MASSON SILVER METHOD (1928) <div style="text-align: right;">Silver reducing substances, including melanin and argentaffin granules</div>
* G - 484 - 1A	Silver Nitrate, 10%, Aqueous
* G - 484 - 1B	Ammonium Hydroxide, Conc.
G - 484 - 2	Gold Chloride, 0.2%, Aqueous
G - 484 - 3	Sodium Thiosulfate, 5%, Aqueous
G - 484 - 4	Nuclear Fast Red (Kernechtrot) Solution
	LUNA'S METHOD FOR ERYTHROCYTES AND EOSINOPHIL GRANULES <div style="text-align: right;">Erythrocytes, eosinophil granules, Charcott Layden crystals, etc.</div>
* G - 486 - 1A	Weigert's Iron Hematoxylin A &
G - 486 - 1B	Weigert's Iron Hematoxylin B
G - 486 - 2	Biebrich Scarlet Solution, 1%, Aqueous
* G - 486 - 3	Acid Alcohol, 1%
G - 486 - 4	Lithium Carbonate, 0.5%, Aqueous
	CAIN'S METHOD FOR MITOCHONDRIA (1948) <div style="text-align: right;">Mitochondria</div>
*G - 488 - 1	Aniline <i>Poison Pak!</i>
G - 488 - 2	Acid Fuchsin Powder
G - 488 - 3	Methyl Blue Solution, 0.5%, Aqueous
G - 488 - 4	Sodium Carbonate, 0.1%, Aqueous
G - 488 - 5	Hydrochloric Acid, 1%

*denotes extra hazard charge