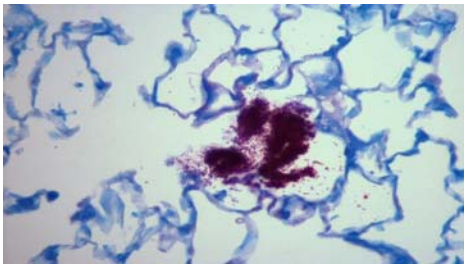
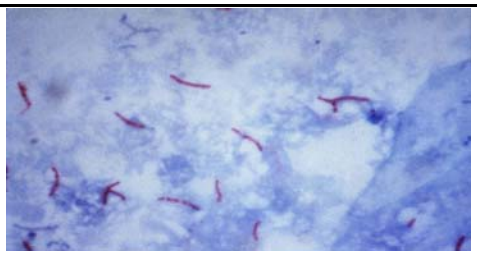
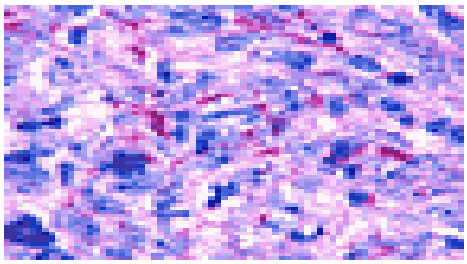
## A. BACTERIAL, FUNGAL, AND INCLUSION BODY STAINS

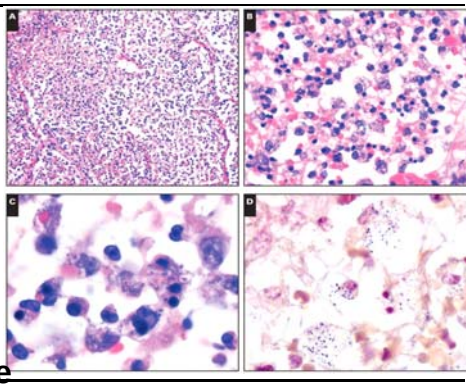
### *BACTERIAL STAINS*

| | PRODUCT NO. | STAINING METHOD/REAGENTS | 4 oz. | 8 oz. | Pint | Quart | Gallon |
|---|---|---|---|---|---|---|---|
| | | **FITE'S METHOD FOR ACID FAST ORGANISMS** *(1947)* | | | | | |
| | | ***Certain strains of Nocardia and lepra bacilli*** | | | | | |
| | A - 100 - 1 | Ziehl-Neelsen Carbol Fuchsin Solution | | | | | |
| * | A - 100 - 2 | Methylene Blue Stock Solution **OR** | | | | | |
| | A - 100 - 2A | Methylene Blue Working Solution | | | | | |
| * | A - 100 - 3 | Xylene-Peanut Oil, 2:1 | | | | | |
| | A - 100 - 4 | Sulfuric Acid, 1% | | | | | |
| | | **KINYOUN'S METHOD FOR ACID-FAST BACTERIA** (1915) | | | | | |
| | | ***Acid-fast bacteria*** | | | | | |
| * | A - 101 - 1 | Kinyoun's Carbol Fuchsin Solution | | | | | |
| * | A - 101 - 2 | Methylene Blue Stock Solution **OR** | | | | | |
| | A - 101 - 2A | Methylene Blue Working Solution | | | | | |
| * | A - 101 - 3 | Acid Alcohol, 1% | | | | | |
| | | **TRUANT'S FLOURESCENT METHOD FOR ACID-FAST BACTERIA** (1962) | | | | | |
| | | ***Acid-fast organisms*** | | | | | |
| * | A - 102 - 1A | Weigert's Iron Hematoxylin Solution A & | | | | | |
| | A - 102 - 1B | Weigert's Iron Hematoxylin Solution B | | | | | |
| | A - 102 - 2 | Auramine-Rhodamine ***Refrigerate!*** | | | | | |
| * | A - 102 - 3 | Acid Alcohol, 1% | | | | | |
| | | **ZIEHL-NEELSEN METHOD FOR ACID-FAST BACTERIA** Mallory (1961) | | | | | |
| | | ***Acid-fast bacilli*** | | | | | |
| | A - 103 - 1 | Ziehl-Neelsen Carbol Fuchsin Solution | | | | | |
| * | A - 103 - 2 | Methylene Blue Stock Solution **OR** | | | | | |
| | A - 103 - 2A | Methylene Blue Working Solution | | | | | |
| * | A - 103 - 3 | Acid Alcohol, 1% **OR** | | | | | |
| | A - 103 - 4 | Sulfuric Acid, 1% | | | | | |
| | | **WADE'S METHOD FOR ACID-FAST ORGANISMS** *Wade (1952)* | | | | | |
| | | ***Acid-fast bacilli*** | | | | | |
| | A - 104 - 1 | Carbol New Fuchsin Staining Solution | | | | | |
| | A - 104 - 2 | Modified Van Gieson Staining Solution | | | | | |
| * | A - 104 - 4 | Formaldehyde, 37-40% | | | | | |
| * | A - 104 - 5 | Sulfuric Acid, 5% Aqueous | | | | | |
| | A - 104 - 6 | Potassium Permanganate, 1% Aqueous | | | | | |
| | A - 104 - 7 | Oxalic Acid, 2%, Aqueous | | | | | |
| | | **BROWN AND BRENN METHOD FOR GRAM POSITIVE AND GRAM NEGATIVE BACTERIA** *(1931)* | | | | | |
| | | ***Gram +/Gram- bacteria and filaments of norcardia, etc.*** | | | | | |
| | A - 105 - 1 | Crystal Violet Staining Solution, 1%, Aq. | | | | | |
| | A - 105 - 2 | Sodium Bicarbonate, 5%, Aqueous | | | | | |
| | A - 105 - 3 | Basic Fuchsin Stock Solution, 0.25% **OR** | | | | | |
| | A - 105 - 3A | Basic Fuchsin Working Solution | | | | | |
| | A - 105 - 4 | Gram's Iodine Solution | | | | | |
| * | A - 105 - 5A | Acetone: Alcohol, 1:1 | | | | | |
| * | A - 105 - 6 | Picric Acid-Acetone Solution, 0.1% | | | | | |
| * | A - 105 - 7 | Acetone | | | | | |
| * | A - 105 - 8 | Acetone: Xylene 1:1 | | | | | |



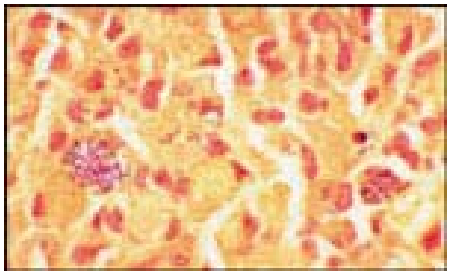


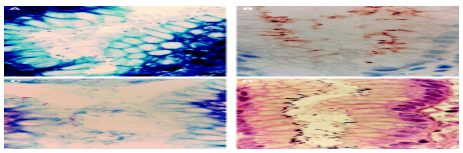


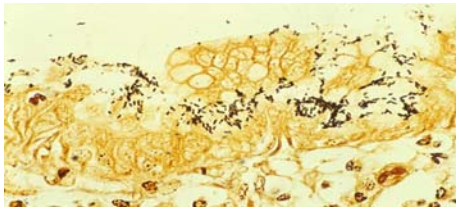


*** denotes extra hazard charge**

| | PRODUCT NO. | STAINING METHOD/REAGENTS | 4 oz. | 8 oz. | Pint | Quart | Gallon |
|---|---|---|---|---|---|---|---|
| | | **BROWN-HOPPS METHOD FOR GRAM POSITIVE AND GRAM NEGATIVE BACTERIA** | | | | | |
| | | ***Gram+/Gram- bacteria*** | | | | | |
| | A - 106 - 1 | Crystal Violet Staining Solution, 1%, Aq. | | | | | |
| | A - 106 - 2 | Gram's Iodine Solution | | | | | |
| | A - 106 - 3 | Basic Fuchsin Staining Solution, 0.5% Aq. | | | | | |
| | A - 106 - 4 | Gallego's Differentiating Solution | | | | | |
| * | A - 106 - 5 | Cellosolve | | | | | |
| | A - 106 - 6 | Tartrazine, 1.5%, Aqueous | | | | | |
| | | **MACCALLUM-GOODPASTURE METHOD FOR GRAM +/- BACTERIA** *MacCallum (1919)* | | | | | |
| | | ***Gram+/Gram- bacteria*** | | | | | |
| * | A - 107 - 1 | Goodpasture's Staining Solution | | | | | |
| | A - 107 - 2 | Gram's Iodine Solution | | | | | |
| | A - 107 - 3 | Crystal Violet, Stirling | | | | | |
| | A - 107 - 4 | Picric Acid Solution, Saturated, Aq. | | | | | |
| * | A - 107 - 5 | Formaldehyde, 37-40% | | | | | |
| | *A - 107 - 7 | Xylene-Aniline 1:1 ***Poison Pak!*** | | | | | |
| | | **TAYLOR'S METHOD FOR GRAM POSITIVE AND GRAM NEGATIVE BACTERIA** *Taylor (1966)* | | | | | |
| | | ***Gram+/Gram- bacteria-nuclei, cytoplasm, necrotic tissue and erythrocytes*** | | | | | |
| | A - 108 - 1 | Harris Hexatoxylin **w/o Mercury** | | | | | |
| | A - 108 - 2 | Crystal Violet, Hucker's | | | | | |
| | A - 108 - 3 | Basic Fuchsin Stock Solution, 0.1% **OR** | | | | | |
| | A - 108 - 3A | Basic Fuchsin Working Solution | | | | | |
| | A - 108 - 4 | Gram's Iodine Solution | | | | | |
| | A - 108 - 5 | Lithium Carbonate Solution, Sat'd, Aq. | | | | | |
| * | A - 108 - 6 | Acid Alcohol, 1% | | | | | |
| * | A - 108 - 7A | Acetone: Alcohol 1:1 | | | | | |
| * | A - 108 - 8 | Acetone | | | | | |
| * | A - 108 - 9 | Picric Acid-Acetone Solution, 0.1% | | | | | |
| * | A - 108 - 10 | Acetone-Xylene I 1:2 | | | | | |
| * | A - 108 - 11 | Acetone-Xylene II 1:3 | | | | | |
| | | **GRIDLEY'S METHOD FOR ENDAMOEBA HISTOLYTICA** *Gridley (1953)* | | | | | |
| | | ***Amoebae, their nuclei and ingested erythrocytes*** | | | | | |
| | A - 109 - 1 | Harris Hematoxylin **w/o Mercury OR** | | | | | |
| * | A - 109 - 1A | Weigert's Iron Hematoxylin Solution A & | | | | | |
| | A - 109 - 1B | Weigert's Iron Hematoxylin Solution B | | | | | |
| | *A - 109 - 2 | Aniline-Eosin Soln ***Poison Pak!*** | | | | | |
| | A - 109 - 3 | Naphthol Green B Staining Solution, 1% | | | | | |
| * | A - 109 - 4 | Acid Alcohol, 1% | | | | | |
| | A - 109 - 5 | Ammonia Water, 0.3% | | | | | |
| | | **GIEMSA FOR H-PYLORI AND MAST CELLS** *Luna (1992)* | | | | | |
| | | ***H-pylori and Mast cells*** | | | | | |
| * | A - 110 - 1 | Methanol | | | | | |
| * | A - 110 - 2 | Giemsa Stock Solution | | | | | |
| | A - 110 - 3 | Acetic Acid, 1% | | | | | |
| | | **WARTHIN-STARRY METHOD FOR SPIROCHETES AND DONOVAN BODIES** *Bridges and Luna (1957)* | | | | | |
| | A - 111 - 1 | Silver Nitrate, 1% ***Refrigerate !*** | | | | | |
| | A - 111 - 2 | Silver Nitrate, 2% ***Refrigerate!*** | | | | | |
| | A - 111 - 5 | Gelatin Solution, 5% ***Refrigerate!*** | | | | | |
| | A - 111 - 6 | Hydroquinone, 0.15% ***Refrigerate!*** | | | | | |
| | | **RAPID STAINING METHOD FOR HELICOBACTER PYLORI** | | | | | |
| | | ***Spirochetes and donovan bodies*** | | | | | |
| | A - 112 - 1 | Periodic Acid, 1% Aqueous | | | | | |
| | A - 112 - 2 | Sodium metabisulfite, 5% Aqueous | | | | | |
| | A - 112 - 3 | Alcian Yellow, 1% | | | | | |
| | A 112 - 4 | Toluidine Blue, 1% Aqueous | | | | | |
| | A - 112 - 5 | Sodium Hydroxide, 3% Aqueous | | | | | |

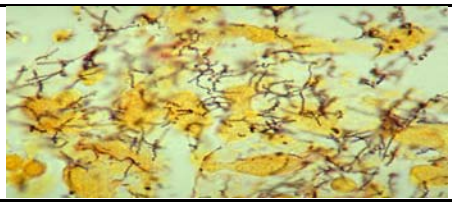






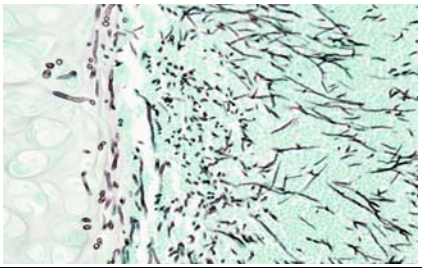
*** denotes extra hazard charge**

| PRODUCT NO. | STAINING METHOD/REAGENTS | 4 oz. | 8 oz. | Pint | Quart | Gallon |
|---|---|---|---|---|---|---|
| | **CRESYL VIOLET ACETATE FOR H-PYLORI** *Gomes (1993)* | | | | | |
| A - 113 - 1 | Cresyl Violet Acetate Aqueous Solution | | | | | |
| | **MAY GRUNWALD-GIEMSA FOR H-PYLORI** *Carson (1980)* | | | | | |
| * A - 114 - 1 | Jenner's Stain | | | | | |
| * A - 114 - 2 | Giemsa Stock Solution | | | | | |
| A - 114 - 3 | Acetic Acid, 0.1% | | | | | |
| *C - 120 | Xylene | | | | | |
| *D - 50….. | Ter-butyl alcohol | | | | | |
| | **HELICOBACTOR PYLORI AND SIMUTANEOUS VISUALIZATION OF GASTRIC MORPHOLOGIC FEATURES** *Cohen and Sayeeduddin (1997)* | | | | | |
| A - 117 - 1 | Periodic Acid ,0.5%,Aqueous | | | | | |
| A - 117 - 2 | Colemans Feulgen ***Refrigerate!*** | | | | | |
| A - 117 - 3 | Mayers Hematoxylin | | | | | |
| A - 117 - 4 | Methylene Blue Working | | | | | |
| | **CHAPMANS MODIFIED WARTHIN STARRY** *Morgeson and Chapman (1996)* ***Spirochetes*** | | | | | |
| A - ….118 1 | Zinc Formalin w/ Zinc Sulfate | | | | | |
| A- - 118 - 2 | Silver Nitrate, 1%, pH 4.0 **Refrigerate!** | | | | | |
| A - 118 - 3 | Silver Nitrate, 2%, pH 4.0 ***Refrigerate!*** | | | | | |
| A - 118 - 4 | Gelatin, 5%, pH 4.0 ***Refrigerate!*** | | | | | |
| A - 118 - 5 | Hydroquinone , 0.15%, pH 4.0 ***Refrigerate!*** | | | | | |
| | **MODIFIED STEINER** *Margeson and Chapman (1996)* ***Spirochetes, donovan bodies, general bacteria*** | | | | | |
| A - 119 - 1 | Zinc Formalin w/ Zinc Sulfate | | | | | |
| A - 119 - 2 | Silver Nitrate, 1%, Aqueous | | | | | |
| *A - ….119 - 3 | Gum Mastic, 2.5% ***Refrigerate!*** | | | | | |
| * A - 119 - 4 | Hydroquinone, 2% ***Refrigerate!*** | | | | | |
| A - 119 - 5 | Silver Nitrate, 0.04%, Aqueous | | | | | |



## *FUNGAL STAINS*

| | | | | | | |
|---|---|---|---|---|---|---|
| | **GRIDLEY'S METHOD FOR FUNGI** (1953) ***Fungal mycelia, conidia, morphological detail of yeast forms and hyphae*** | | | | | |
| * ..A - 120….. 1 | Chromic Acid, 4%, Aqueous | | | | | |
| A - 120 - 2 | Coleman's Feulgen Reagent ***Refrigerate!*** | | | | | |
| *A - 120 - 3 | Aldehyde Fuchsin Solution | | | | | |
| * A - 120 - 4 | Metanil Yellow, 0.25% | | | | | |
| | **GROCOTT'S METHOD (GMS) FOR FUNGI** *(1955)* ***Sharp delineation of fungal mycelia and hyphae, and mucin*** | | | | | |
| *A- 121 - 1 | Chromic Acid, 4%, Aqueous | | | | | |
| A - 121 - 2 | Sodium Borate, 5%, Aqueous | | | | | |
| *A - 121 - 3A | Silver Nitrate, 5%, Aqueous | | | | | |
| A - 121 - 3B | Methenamine, 3%, Aqueous | | | | | |
| A - 121 - 4 | Sodium Bisulfite, 1%, Aqueous | | | | | |
| A - 121 - 5 | Gold Chloride, 0.1%, Aqueous | | | | | |
| A - 121 - 6 | Sodium Thiosulfate, 2%, Aqueous | | | | | |
| A - 121 - 7 | Light Green Solution, 0.2% | | | | | |



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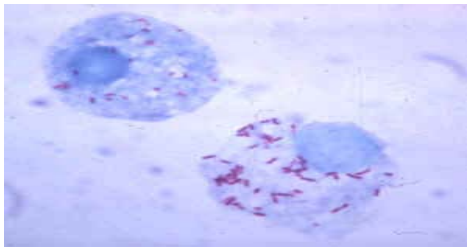
|---|---|---|---|---|---|---|
| | **A COMBINED HEMATOXYLIN AND EOSIN/ METHENAMINE SILVER STAIN FOR THE HISTOLOGICAL DIAGNOSIS OF FUNGI IN TISSUE SECTIONS** *Lamps (2000)* | | | | | |
| *A - 123 - 1 | Chromic Acid, 10% | | | | | |
| A - 123 - 2 | Sodium Bisulfite, 1% | | | | | |
| * A - 123 - 3 | Silver Nitrate, 5%, Aqueous | | | | | |
| A - 123 - 4 | Methenamine, 3%, Aqueous | | | | | |
| A - 123 - 5 | Sodium Borate, 5%, Aqueous | | | | | |
| A - 123 - 6 | Gold Chloride, 0.2% | | | | | |
| A - 123 - 7 | Sodium Thiosulfate, 2%, Aqueous | | | | | |
| A - 123 - 8 | Harris' Hematoxylin **w/o Mercury** | | | | | |
| A - 123 - 9 | Acetic Acid, 3% | | | | | |
| A - 123 - 10 | Ammonia Water, 0.25% | | | | | |
| *A - 123 11 | Eosin Y, 1%, Alcoholic | | | | | |

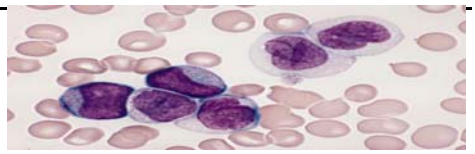
*** denotes extra hazard charge**

## *INCLUSION BODY STAINS*

| | PRODUCT NO. | | STAINING METHOD/REAGENTS | 4 oz. | 8 oz. | Pint | Quart | Gallon |
|---|---|---|---|---|---|---|---|---|
| | | | **GIEMSA METHOD FOR RICKETTSIA** | | | | | |
| * | A - 130 | - 1 | Giemsa Stock Solution **OR** | | | | | |
| | A - 130 | - 1A | Giemsa Working Solution | | | | | |
| * | A - 130 | - 2 | Rosin Alcohol, Stock **OR** | | | | | |
| * | A - 130 | - 2A | Rosin Alcohol, Working | | | | | |
| | A - 130 | - 3 | Phosphate Buffer - pH 6.8 | | | | | |
| | A - 130 | - 4 | Acetic Acid, 0.2%, Aqueous | | | | | |
| | A - 130 | - 5 | Lugol's Iodine **OR** | | | | | |
| | A - 130 | - 5A | Gram's Iodine | | | | | |
| | A - 130 | - 6 | Sodium Thiosulfate, 5%, Aqueous | | | | | |
| | | | **PINKERTON'S METHOD FOR RICKETTSIA** *Simmons and Gentzkow (1944)* | | | | | |
| | A - 131 | - 1 | Methylene Blue Solution, 1%, Aqueous | | | | | |
| | A - 131 | - 2 | Basic Fuchsin Solution, 0.25%, Aqueous | | | | | |
| | A - 131 | - 3 | Citric Acid, 0.5%, Aqueous | | | | | |
| | A - 131 | - 4 | Gram's Iodine **OR** | | | | | |
| | A - 131 | - 4A | Lugol's Iodine | | | | | |
| | A - 131 | - 5 | Sodium Thiosulfate, 5%, Aqueous | | | | | |



| | PRODUCT NO. | | STAINING METHOD/REAGENTS | 4 oz. | 8 oz. | Pint | Quart | Gallon |
|---|---|---|---|---|---|---|---|---|
| | | | **WOLBACH'S GIEMSA METHOD** *(1922)* ***Nuclei, collagen*** | | | | | |
| * | A - 132 | - 1 | Giemsa Stock Solution **OR** | | | | | |
| | A - 132 | - 1A | Giemsa Working Solution | | | | | |
| * | A - 132 | - 2 | Rosin Alcohol Stock Solution, 10% **OR** | | | | | |
| * | A - 132 | - 2A | Rosin Alcohol Working Solution | | | | | |
| | A - 132 | - 3 | Lugol's Iodine **OR** | | | | | |
| | A - 132 | - 3A | Gram's Iodine | | | | | |
| | A - 132 | - 4 | Sodium Thiosulfate, 5%, Aqueous | | | | | |
| | | | **LENDRUM'S METHOD FOR INCLUSION BODIES** *Lendrum (1947)* | | | | | |
| | A - 141 | - 1 | Mayer's Hematoxylin | | | | | |
| | A - 141 | - 2 | Phloxine-Calcium Chloride, 0.5% | | | | | |
| * | A - 141 | - 3 | Tartrazine-Cellosolve Solution, Sat'd. | | | | | |
| | A - 141 | - 4 | Lugol's Iodine **OR** | | | | | |
| | A - 141 | - 4A | Gram's Iodine | | | | | |
| | A - 141 | - 5 | Sodium Thiosulfate, 5%, Aqueous | | | | | |
| | | | **PAGE-GREEN METHOD FOR INCLUSION BODIES** *Page and Green (1942)* | | | | | |
| | A - 142 | - 1 | Shorr's Staining Solution | | | | | |
| | A - 142 | - 2 | Harris' Hematoxylin **w/o Mercury** | | | | | |
| * | A - 142 | - 3 | Acid Alcohol, 1% | | | | | |
| | A - 142 | - 4 | Ammonia Water, 0.3% | | | | | |



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