

# Instructions for Use

## StatLab Premium H&E Stains



| CATALOG NUMBER | DESCRIPTION                        | UNIT OF MEASUREMENT |
|----------------|------------------------------------|---------------------|
| SL100          | Vintage Hematoxylin, 500 mL        | 1 each              |
| SL100-1        | Vintage Hematoxylin, 1 gallon      | 1 each              |
| SL101          | Vintage Eosin-Y, 500 mL            | 1 each              |
| SL101-1        | Vintage Eosin-Y, 1 gallon          | 1 each              |
| SL102          | Vintage Bluing Reagent, 1 gallon   | 1 each              |
| SL103          | 3.5% High Def Acid Rinse, 1 gallon | 1 each              |
| SL205          | 1.0% High Def Acid Rinse, 1 gallon | 1 each              |
| SL88-1         | 0.5% Focus™ Acid Alcohol, 1 gallon | 1 each              |
| SL89-1         | 1.0% Focus™ Acid Alcohol, 1 gallon | 1 each              |
| SL401          | Select Hematoxylin, 500 mL         | 1 each              |
| SL402          | Select Eosin, 500 mL               | 1 each              |
| SL406          | Select Eosin, 1 gallon             | 1 each              |
| SL403          | Select Bluing Reagent, 1 gallon    | 1 each              |
| SL404          | Select Acid Rinse, 1 gallon        | 1 each              |
| SL200          | Reserve Hematoxylin, 500 mL        | 1 each              |
| SL201          | Reserve Eosin Multichrome, 500 mL  | 1 each              |
| SL203          | Reserve Bluing Reagent, 1 gallon   | 1 each              |
| MA0101010      | ClearView Hematoxylin, 500 mL      | 1 each              |
| MA0101015      | ClearView Eosin, 500 mL            | 1 each              |

### INTENDED USE

The StatLab premium H&E stains are specifically designed for the staining of histologic tissue specimens. The staining products have been formulated using the highest reagent grade and certified raw materials that will provide optimal results. Product testings involves analytical, qualitative, and quantitative analysis ensure product quality, longevity, and lot-to-lot consistency. All stain products are ready to use and require no dilution.

### VINTAGE STAIN LINE

StatLab's Vintage Stain Line provides an excellent hybrid stain solution, effective for both cytology, histology, and frozen sections with no filtering required. Can stain up to 2500 slides per 500 mL.

- **Vintage Hematoxylin** is uniquely formulated to be used in place of Gill Hematoxylin. Rapidly provides unsurpassed nuclear chromatin delineation with no affinity for background staining.
- **Vintage Plus Hematoxylin** is optimized for mucin staining, great for gastroenterology, and delivers an intense hue.
- **Vintage Eosin-Y** is a proprietary alcoholic and acidified formulation. It produces a brilliant cytoplasmic stain with three distinct color variations. Yields a familiar cytoplasmic staining result. Designed to go directly into 100% Reagent Alcohol after staining for optimal results.
- **Vintage Bluing Reagent** is an excellent choice for Scotts Tap Water substitute. It is a buffered alkaline rinse with a mild pH of 8.0. Vintage Bluing Reagent ensures optimal staining and proper cellular contrast.
- **3.5% High Def Acid Rinse** is a glacial acetic acid-based formulation that provides crisp nuclear chromatin detail and eliminates any undesired background staining.

### SELECT STAIN LINE

StatLab's Select Hematoxylin Stain Line distinctly stains nuclear chromatin and contains raw materials that are specific to certain proteins within the nucleus of the cell. Works well for routine histology staining, as well as an IHC counterstain and frozen sections. Can stain up to 2500 slides per 500 mL.

- **Select Hematoxylin** is a proprietary progressive nuclear stain and is considered a hybrid hematoxylin possessing the rapid staining quality of Gill Hematoxylin along with the familiar brilliant nuclear chromatin delineation of a Harris. Select Hematoxylin has no affinity for background or mucin staining.
- **Select Eosin** is a proprietary alcoholic and acidified formulation with unique chemical properties, including pH, that effectively complement Select Hematoxylin to provide the best possible cellular contrast. Select Eosin produces a brilliant cytoplasmic stain with three distinct color variations. Designed to go directly into 100% Reagent Alcohol after staining for optimal results.
- **Select Bluing Reagent** is a buffered alkaline rinse with a mild pH of 8.0. It ensures optimal staining and proper cellular hue staining and is tinted blue for easy identification.
- **Select Acid Rinse** produced unparalleled crisp nuclear chromatin details and eliminates undesirable background staining. It utilizes a buffer system to prevent pH fluctuation.

### RESERVE STAIN LINE

StatLab's Reserve Stain Line is unique to the industry with the most distinct and cellular-specific stains available. Reserve stains can last 3,500 slides per 500 mL before losing intensity.

- **Reserve Hematoxylin** is uniquely engineered to only stain the nuclear chromatin with no affinity for background or mucin staining. Can be used in place of Gill or Harris, and for both histology and cytology applications.
- **Reserve Eosin Multichrome** is a proprietary formulation that provides striking contrast and brilliant staining of all cytoplasmic components. Three-dye combination provides familiar and vibrant cytoplasmic staining and differentiation.
- **Reserve Bluing Reagent** is a buffered alkaline rinse with a mild pH of 8.0 and ensures optimal staining and proper cellular contrast. Designed to go directly into 100% Reagent Alcohol after staining for optimal results.

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## StatLab Premium H&E Stains



- **3.5% or 1.0% High Def Acid Rinse** is a glacial acetic acid based formulation that provides crisp nuclear chromatin detail and eliminates any undesired background staining. 1.0% High Def Acid Rinse is optimal for laboratories equipped with linear stainers.

### CLEARVIEW STAIN LINE

The StatLab ClearView Staining System quickly delivers consistent, high-quality results to support rapid diagnosis. Produces excellent staining of both small and large sections, brilliant stains of nuclei and cytoplasm of cells, and produces no mucin staining. Works well with 3.5% High Def Acid Rinse and Vintage Bluing Reagent.

- **ClearView Hematoxylin** is a hybrid stain producing excellent staining particularly in skin and GYN tissues. Produces no background staining.
- **ClearView Eosin** is a superior counterstain for hematoxylin. It produces enhanced staining of nuclear and non-nuclear cellular components and improved differentiation by graded alcohols in the staining sequence.

### TECHNICAL NOTES

Protocols can be optimized to lab preference. Product change is dependent on the end user's own quality assurance program. Generally, solutions should be changed every week for optimal results. Solutions should be covered when not in use. If the last alcohol after eosin is pink or tinted pink, alcohols should be rotated or changed.

Distilled or deionized water is preferred for use in the staining procedures. Tap water can cause contaminants that will affect staining quality.

If using xylene substitutes, they must be free of water and may require more frequent rotation or change.

StatLab Eosins are designed to go directly into 100% Reagent Alcohol and may not be effective if placed in 95% or 70% alcohol after staining.

Focus™ Acid Alcohol contains hydrochloric acid to rapidly remove excess stain and produce better defined nuclei. Recommended for use with manual staining as extended time may eliminate too much stain.

Dispose of all staining reagents in accordance with local, state, and federal regulations. See SDS for more information.

### SAMPLE STAINING PROCEDURE FOR ROUTINE H&E

|    |                      |               |
|----|----------------------|---------------|
| 1  | Clearing Reagent     | 2 minutes     |
| 2  | Clearing Reagent     | 2 minutes     |
| 3  | Clearing Reagent     | 2 minutes     |
| 4  | 100% Reagent Alcohol | 1 minute      |
| 5  | 100% Reagent Alcohol | 1 minute      |
| 6  | 100% Reagent Alcohol | 1 minute      |
| 7  | 95% Reagent Alcohol  | 1 minute      |
| 8  | Water Rinse          | 30 seconds    |
| 9  | Hematoxylin          | 3 minutes     |
| 10 | Water Rinse          | 1 minute      |
| 11 | Hi-Def (Acid Rinse)  | 30 seconds or |
|    | Focus Acid Alcohol   | 3 seconds     |
| 12 | Water Rinse          | 1 minute      |

|    |                      |            |
|----|----------------------|------------|
| 13 | Bluing Reagent       | 1 minute   |
| 14 | Water Rinse          | 1 minute   |
| 15 | 95% Reagent Alcohol  | 15 seconds |
| 16 | Eosin                | 30 seconds |
| 17 | 100% Reagent Alcohol | 1 minute   |
| 18 | 100% Reagent Alcohol | 1 minute   |
| 19 | 100% Reagent Alcohol | 1 minute   |
| 20 | Clearing Reagent     | 1 minute   |
| 21 | Clearing Reagent     | 1 minute   |
| 22 | Clearing Reagent     | 1 minute   |
|    | Coverslip            |            |

### SAMPLE STAINING PROCEDURE FOR FROZENS

|    |                        |           |
|----|------------------------|-----------|
| 1  | Fix                    | 2 minutes |
| 2  | Water Rinse            | 5-7 dips  |
| 3  | Hematoxylin            | 3-5 dips  |
| 4  | Water Rinse            | 5-7 dips  |
| 5  | 1% High Def (Optional) | 1-3 dips  |
| 6  | Bluing Reagent         | 3-4 dips  |
| 7  | Water Rinse            | 3-4 dips  |
| 8  | 95% Reagent Alcohol    | 3-4 dips  |
| 9  | Eosin                  | 1-2 dips  |
| 10 | 100% Reagent Alcohol   | 5-8 dips  |
| 11 | 100% Reagent Alcohol   | 5-8 dips  |
| 12 | Clearing Reagent       | 10 dips   |
| 13 | Clearing Reagent       | 10 dips   |
|    | Coverslip              |           |

These protocols are recommendations only. Modifications may be necessary.

Contact your sales representative if interested in StatLab's **Stain Evaluation Program** to explore alternatives to improve efficiency and quality.

Please contact [tech@statlab.com](mailto:tech@statlab.com) with any additional questions.

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