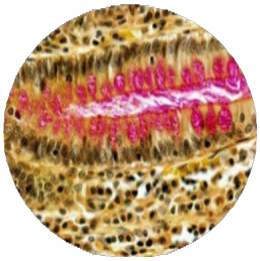
MasterTech S^2 Stain Kit Instructions for Use



Mucicarmine

Kit Item # QS2-MUCI

The Mucicarmine Stain Kit is intended for use in the identification of epithelial mucins. Mucicarmine serves as the primary stain, producing pink to red epithelial mucins. Hematoxylin acts as a secondary stain, producing blue to black nuclei against a yellow background, counterstained by Optimized Tartazine Counterstain.

INCLUDES COMPONENTS	Item Number	Vials Included
Dewax Solution	S001-15	1 vial (15mL)
Weigert's Hematoxylin A	HXWHEA-7	1 vial (7mL)
Weigert's Hematoxylin B	HXWHEB-7	1 vial (7mL)
Muci-10-Plus	STMUC-SF-15	1 vial (15 mL)
Deionized Water	SL30-15	2 vials (15 mL)*
Tartrazine Optimized	KC325-SF-15	2 vials (15mL)
Reagent Alcohol 100%	6900-15	1 vial (15mL)

*Not all vials of this solution are required to be loaded on the QS2 instrument for each run. Each reagent component noted as * contains solution for a reduced number of tests to ensure the highest level of staining quality and consistency possible. If multiple vials are required for the particular number of slides being stained, the QS2 instrument will notify you prior to beginning the staining sequence.

STORAGE AND STABILITY

The Muci-10-Plus stain must be stored at 2-8^{0}C. Do not freeze. The reagents must be returned to storage conditions immediately after use. Other components can be stored at room temperature. When properly stored, the reagents are stable to the date indicated on the label.

RESULTS

Epithelial Mucins: Pink to Red
Nuclei: Blue to Black
Background: Yellow

Intended for *in-vitro* use by laboratory professionals.
Each kit will stain approximately 50 slides.

SPECIMEN PREPARATION

Appropriately fixed, paraffin-embedded, 3-5µm tissue section.

CONTROL TISSUE

Colon or Small Intestine

DILUTION AND MIXING

Most solutions in the kit are ready-to-use. The on-slide mixing feature on the Quantum S2 Slide Stainer will mix the working Weigert's Hematoxylin solution (Weigert's Hematoxylin (A) and Weigert's Hematoxylin (B) and the working Mucicarmine solution (Muci-10-Plus and Deionized Water).

LIMITATIONS AND PRECAUTIONS

For use by laboratory professionals. See SDS for complete warnings, precautions, hazard and precautionary statements, and disposal information. Do not use if reagents become cloudy. Do not use past expiration date.

INSTRUCTIONS FOR USE

1. Press **Prepare Labels** to prepare slide labels, and affix labels to slides.
2. Place and secure blue staining chambers in respective module lids.
3. Insert labeled slides on the modules and press **Scan Slides**.
4. Press **Scan Reagents** to display the required reagent names and volumes (number of tests).
5. Place Mucicarmine Stain Kit vials onto the Reagent Rack and remove caps from vials.
6. Press **Scan Reagents** to start the staining process.

Use stains and reagents when they are at room temperature. Tissue sections should be placed in proper area of the microscope slide for best results. Check the level of bulk deionized water before stain run to ensure proper volumes are used for optimal staining results. Replace caps on the vials when not using to minimize evaporation or other variables. The blue chambers must be cleaned after each use with Quantum Chamber Cleaning Solution for 20-30 minutes followed by a thorough deionized water rinse. Allow to air dry before each use.

MATERIALS REQUIRED BUT NOT SUPPLIED

1 Control tissue (CS1025P)
2 Blue Staining Chambers (QHD-CH200-10)
3 QS2 Cleaning Kit, Standard Special Stains (Alcohol) (QS2-CLN)
4 Quantum Chamber Cleaning Solution (QHD-QHS-1)

NOTES

For possible customizations, staining protocol information, or troubleshooting, please contact the Technical Support Department at StatLab by emailing tech@StatLab.com or calling 1-800-442-3573 ext 106

StatLab

STATLAB QUANTUM S2 STAINER

Run more stains with the StatLab Quantum S2 Slide Stainer, a fully-automated slide staining. This universal system is designed to automate the manual staining methods routinely used in special stains and related applications. Its user-friendly programming and flexible platform allow for easy user interface. The StatLab MasterTech S2 Stain Kits are to be used exclusively on the Quantum S2 Slide Stainer, and no other reagents should be used other than those provided in the kits or specified as they may damage the platform.

REFERENCES

1. McManus, J.F.A. and Mowry, R. 1955. Staining Methods and Histologic and Histochemical. Grocott, pp 194-197.
2. Koski, J.P. 1981. Silver methenamine-borate (SMB); Cost reduction with technical improvement in silver nitrate-gold chloride impregnation's. Journal of Histotechnology 4:115.
3. Procop, G.W. et al. 2004. Detection of Pneumocystis jiroveci in Respiratory Specimens by Four Staining Methods. Journal of Clinical Microbiology. July 2004, Vol. 42, No. 7, pp 3333-3335.
4. Raab, S.S. et al. 1994. Utility of Gomori methenamine silver stains in bronchoalveolar lavage specimens. Modern Pathology, June 1994, Vol. 7, No. 5, pp 599-604.
5. Sale, G.E. 1978. Rapid Methenamine Silver Stain. Arch Path Lab Med, 1978, 102, pp 351-352.
6. Sheehan, D.C., Hrapchak, B.B. 1980. Theory and Practice of Histotechnology, 2nd edition, CV Mosby Company, St. Louis, MO.

StatLab