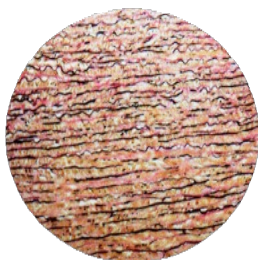


MasterTech S² Stain Kit Instructions for Use



Verhoeff's Elastic

Kit Item # QS2-KTVEL

The Verhoeff's Elastic Stain Kit is used to demonstrate changes in elastic tissues such as atrophy, arteriosclerotic changes, reduplication, breaks, splitting, or to determine whether blood vessels have been invaded by a tumor. Verhoeff's working solution serves as the primary stain to produce purple to black elastic fibers and pink to red collagen against yellow background tissue counterstained by Van Gieson's Stain.

INCLUDES COMPONENTS	Item #	Vials Included
Dewax Solution	S001-15	1 vial (15mL)
Alcoholic Hematoxylin, 5%	KC211-15	2 vials* (15mL)
Ferric Chloride Solution, 10%	AHF01-15	1 vial (15mL)
Universal Iodine Solution	STUIO-15	1 vial (15mL)
Sodium Thiosulfate, 5%	AHS03-15	1 vial (15mL)
Van Gieson's Stain	STVGI-SF-15	1 vial (15mL)
Ferric Chloride Solution, 2%	KC414-15	1 vial (15mL)
Reagent Alcohol, 100%	6900-15	1 vial (15mL)
15ml Clear Vial with Cap	PC750-100	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

Store components at room temperature. When properly stored, the reagents are stable to the date indicated on the label.

RESULTS

Elastic Fibers: Purple to black

Collagen: Pink to red

Background Tissue: 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

Aorta

DILUTION AND MIXING

Most solutions in the kit are ready-to-use. The on-rack mixing feature on the Quantum S2 Slide Stainer will mix the working Elastic Stain solution (5% Alcoholic Hematoxylin, 10% Ferric Chloride, and Universal Iodine Solution).

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.

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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 Verhoeff's Elastic Stain Kit vials onto the Reagent Rack and remove caps from vials.
- 6 Use the **clean empty vial in Position 40** for on-rack mixing. Make sure this vial is removed from the stainer after the stain run and is appropriately cleaned after each use.
- 7 Press **Scan Reagents** to start the staining process.

Use stains and reagents when they are at room temperature. Tissue section should be placed in proper area of 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 solution evaporation and 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 next use.

MATERIALS REQUIRED BUT NOT SUPPLIED

- 1 Control tissue (CSA0825P)
- 2 Blue Staining Chambers (QHD-CH200-10)
- 3 QS2 Cleaning Kit, Standard Special Stains (Alcohol) (QS2-CLN)
- 4 Quantum Chamber Cleaning Solution (QHD-QCS-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 QUANTUM S2 STAINER

Run more stains with the StatLab Quantum S2 Slide Stainer. 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. Sheehan DC Hrapchak BB: Theory and Practice of Histotechnology; 1980, 190.
2. A.F.I.P. Laboratory Methods in Histotechnology: 1992, 132 - 133.
3. With modifications by AMTS R&D Department, 1979-2018.

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