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Part 1151 Revised March 2025

Haupt Gelatin Adhesive - Technical Memo

SOLUTION: Haupt Gelatin Adhesive **500 ml** Part 1151A

For storage requirements and expiration date refer to individual bottle label.

APPLICATION:

Newcomer Supply Haupt Gelatin Adhesive is a blended solution of highquality gelatin, glycerin and phenol with a variety of procedural uses including subbed slide/direct slide coating applications. Haupt Gelatin Adhesive works to create a strong adhesive bond between tissue sections and microscopic slides to prevent or reduce the loss of sections due to the nature of the tissue and tissue treatments, such as:

- Thick sections
- · Harsh staining procedures
- Animal tissues
- Plant preparations
- Bone specimens
- Resin, plastic/methyl methacrylate (MMA) sections

METHOD:

Technique: Frozen, paraffin or resin, plastic/MMA sections **Solutions:** All solutions are manufactured by Newcomer Supply, Inc.

PROCEDURES:

Haupt Gelatin Adhesive Subbed Slide Preparation:

- 1. Use only clean and dry microscopic slides.
- Place a large drop of Haupt Gelatin Adhesive on slides, spread evenly over surface creating a thin film.
 - a. Allow a minimum of 30 minutes drying time.
 - b. Background staining may occur with thicker films.
 - c. See Procedure Note #1.

Water Bath Method for Sections on Subbed Slides:

- Fill water bath with distilled water; maintain temperature at 5°- 10°C below melting point of embedding medium.
 - a. See Procedure Note #2.
- 4. Float paraffin tissue sections onto Haupt subbed slides.
- 5. Warm slide slightly on edge of water bath to straighten section.
- 6. Drain and dry slides.

Vapor Fixation Method for Sections on Subbed Slides:

- Mount paraffin or frozen sections on Haupt subbed slides; dry 1 minute.
- Under fume hood, add 2-4 ml of concentrated formaldehyde to bottom of a Coplin jar.
- Place slides in Coplin jar; formaldehyde should not be in direct contact with tissue sections.
- 10. Tightly cover and place in 60°C oven for 30 minutes to 1 hour.
 - a. See Procedure Note #3.
- 11. Remove slides from Coplin jar; drain and dry.

Method for Resin, Plastic/MMA Sections on Subbed Slides:

- 12. Place droplets of filtered/processed water on Haupt subbed slides.
- 13. Transfer resin or plastic/MMA sections to water droplets.
- 14. Air dry or use low heat.

Method for Resin, Plastic/MMA Sections on Non-Subbed Slides:

- 15. Place droplets of Haupt Gelatin Adhesive on clean, dry slides.
- 16. Transfer resin or plastic/MMA sections directly to Haupt droplets.
- 17. Add 1-2 drops of 50% ethanol atop sections.
- 18. Manipulate sections by teasing or stretching to remove any folds.
- 19. Air dry or use low heat.

PROCEDURE NOTES:

- Dry slides in dust-free environment and store dried subbed slides indefinitely in a slide box at room temperature and low humidity.
- Clean interior/exterior of water bath on a daily basis to deter contaminates and residual gelatin adhesive build-up.
- 3. Formalin vapor renders gelatin insoluble, strongly affixing tissue sections to subbed slides.

REFERENCES:

- Haupt, Arthur W. "A Gelatin Fixative for Paraffin Sections." Stain Technology 5.3 (1930): 97-98.
- Huang, Bing Quan, Michael John Sumner, Claudio Stasolla and Edward C. Yeung. Plant Microtechniques and Protocols. Springer, 2015. 88, 94.
- Luna, Lee G. Histopathologic Methods and Color Atlas of Special Stains and Tissue Artifacts. Gaitheresburg, MD: American Histolabs, 1992. 581.
- Presnell, Janice, Martin Schreibman and Gretchen Humason. Humason's Animal Tissue Techniques. 5th ed. Baltimore: Johns Hopkins University Press, 1997. 468.
- 5. Modifications developed by Newcomer Supply Laboratory.

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