

Aminoalkylsilane Slide Adhesive - Technical Memo

SOLUTION:

Aminoalkylsilane Slide Adhesive

250 ml

Part 1007A

500 ml

Part 1007B

1 Liter

Part 1007C

Additionally Needed:

Non-Adhesive Slides

Part 6215 (Frosted End)

Part 6206 (Colored End)

Part 6210 (Plain)

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

APPLICATION:

Newcomer Supply Aminoalkylsilane Slide Adhesive is a ready-to-use working adhesive solution to treat non-adhesive glass microscope slides and provide strong tissue adhesion properties for paraffin and frozen tissue sections, while leaving minimal or no background staining.

250 ml of Aminoalkylsilane Slide Adhesive will treat 400 slides.

METHOD:

Technique: Paraffin or frozen sections

Solutions: All solutions are manufactured by Newcomer Supply, Inc.

PROCEDURE:

1. Fill slide rack with clean and dry non-adhesive slides.
 - a. *If necessary, clean racked slides in 4-5 dips of Acetone (Part 10014) prior to adhesive treatment.*
2. Shake bottle of Aminoalkylsilane Slide Adhesive before use. Pour solution into an appropriate size staining dish.
 - a. *Use sufficient solution to completely cover slides.*
 - b. *Keep staining dish covered to avoid evaporation.*
 - c. *Store used Aminoalkylsilane Slide Adhesive in a separate sealed container; reuse for up to three weeks.*
3. Soak slides in Aminoalkylsilane Slide Adhesive for 2 minutes.
 - a. *Increased soaking time does not improve performance.*
4. Rinse slides well in three changes of distilled water; 5 dips each.
 - a. *Thorough rinsing removes excess adhesive and reduces occurrence of background staining.*
5. Drain slides. Blot and tap excess water to prevent water spotting.
6. Dry slides in a 60°C oven for a minimum of 30 minutes or overnight at room temperature.
7. Store dried treated slides in a clean slide box at room temperature.
 - a. *Slides will adhere together if not thoroughly dried before storing.*
8. Wash emptied slide racks, plasticware and glassware after use to ensure adhesive is removed.

PROCEDURE NOTES:

1. Aminoalkylsilane Slide Adhesive is initially clear or light amber in color and may become cloudy and turn darker in color as it ages.
 - a. *Adhesive effectiveness will not diminish if these changes occur.*
2. Tissue sections will strongly adhere to Aminoalkylsilane treated slide from first contact; position section carefully.
3. To prevent formation of water trapped between paraffin section and glass, drain and dry sectioned slides in a vertical position.

REFERENCES:

1. Carson, Freida L. and Christa Hladik. *Histotechnology: A Self-Instructional Text*. 3rd ed. Chicago, Ill.: American Society of Clinical Pathologists, 2009. 70.
2. Henderson, Colin. "Aminoalkylsilane: An Inexpensive Simple Preparation for Slide Adhesion." *The Journal of Histotechnology* 12.2 (1989): 123-124.
3. Modifications developed by Newcomer Supply Laboratory.