

Part 6270 Revised March 2025

# Mount-Quick Mounting Media, Liquid Coverslip and Tissue Transfer - Technical Memo

Scalpels, Flat Edge

NewSilane Adhesive Slides

PRODUCT:30 cc TubeMount-Quick Mounting MediaPart 6270

Additionally Needed for Tissue/Cell Transfer Procedure:Xylene, ACSPart 1445HistoTec™ PenPart 5725Scalpels, FingerPart 6810Superfrost® Plus SlidesPart 6203W

Alcohol, Ethyl Denatured, 100% Part 10841 Alcohol, Ethyl Denatured, 95% Part 10842

## **APPLICATION:**

Newcomer Supply Mount-Quick Mounting Media is a multi-use product with applications as a standard mounting media, a liquid coverslip (coverglass free) mounting media and for tissue transfer procedures.

The tissue transfer procedure involves the use of Mount-Quick to transfer sections from a prepared microscope slide when specimen availability is limited and further diagnostic workup is needed. Staining quality will not be affected and histochemical, immunohistochemistry (IHC) and cytochemical procedures performed on transferred samples produce reliable results. Examples when tissue transfer is applicable include:

- Paraffin sections of small biopsies/minimal tissue
- · Biopsies with a small foci of neoplasm
- Paraffin block is unavailable
- Cytology preparations, fine needle aspirates (FNA)
- Transfer of tissue from an uncharged slide to charged slide(s)
- · Preparing multiple slides from a single slide preparation
- · Restoring broken slides back to a whole mount

This tissue transfer procedure takes time to obtain a well-prepared end product. Practicing the technique prior to performing on limited specimens is suggested. Reduced timings/short cuts shouldn't be taken.

### METHOD:

Coverslipping: Paraffin or frozen sections

**Tissue/Cell Transfer:** Stained and unstained paraffin sections, cytology preparations and smears.

## **COVERSLIPPING PROCEDURE:**

- Complete staining procedure: dehydrate, clear with xylene, blot excess xylene from slide edges.
- 2. Apply Mount-Quick Mounting Media to fully cover tissue section(s).
  - Standard coverglass; install one edge first, allowing air bubbles to escape as opposite edge is lowered to slide.
  - Liquid coverglass (coverglass free); allow to dry flat for 30 minutes before handling and viewing microscopically.
- Dry slides a minimum of 24-48 hours before filing.

#### **TISSUE/CELL TRANSFER PROCEDURE:**

- Mark tissue area(s) that is the focus of tissue transfer on underside of the original slide with a HistoTec Pen (5725).
- 2. For previously stained sections:
  - Soak slide in xylene until coverslip is removed without damage to tissue section.
  - b. Run slide through several changes of xylene to ensure removal of residual mounting media.
  - c. Do not proceed through alcohol steps.
  - d. See Procedure Note #1.
- For unstained paraffin sections or smears:
  - Soak slides in several changes of xylene, a minimum of 10 minutes. <u>Do not proceed through alcohol steps.</u>

- Spread Mount-Quick Mounting Media on xylene-coated slides with an applicator stick. Use sufficient Mount-Quick to form a meniscus over entire tissue section or cell preparation.
- a. Slide must be xylene coated and not allowed to dry out.

  5. Place slide in a flat horizontal position in a 60°C oven for 90 minutes.
- 5. Place slide in a flat horizontal position in a 60°C oven for 90 minutes to 2 hours or in a 37°C oven overnight until meniscus hardens.
  - a. See Procedure Note #2.

Part 5545

Part 5070

- Mark surface of hardened mounting media meniscus to correspond with areas marked on underside of the slide (Step #1) with HistoTec Pen to maintain tissue orientation in transfer process.
- 7. Immerse slide in a Coplin jar of water warmed in a 45°- 60°C water bath; soak for 90 minutes to 3 hours.
- 8. Slowly pry meniscus off at edges with a scalpel blade. If meniscus does not peel off easily, return to warm water and continue soaking.
  - a. See Procedure Note #3.
- 9. Moisten charged slides to receive transferred segments with water.
- To transfer one intact segment; place on moistened charged slide, meniscus side up.
- To transfer multiple sections; cut removed meniscus with water moistened scalpel blade into segments as marked on medium surface.
  - Place each cut segment, meniscus side up, onto moistened charged slide in sequential order.
- Soak gauze in warm water, place over tissue section. With thumb, press gauze flat transferring water to the section, flattening edges and sealing transferred section to slide.
  - a. If a transferred section is placed meniscus down, the specimen will not adhere and will be lost in further steps.
- 13. Place slide(s) in a 37°- 60°C oven in a flat horizontal position for 1 hour or longer to securely adhere transferred section to slide.
- 14. Soak slide(s) in four changes of xylene for 10 minutes each or longer until all Mount-Quick compound is completely dissolved.
  - a. See Procedure Note #4.
- Re-hydrate through two changes each of 100% and 95% ethyl alcohols, 10 dips each. Wash well with distilled water.
- 16. Specimen is ready for histochemical, IHC or cytochemical staining.

## **PROCEDURE NOTES:**

- If any residual mounting medium remains on the slide, tissue transfer and staining may be compromised.
- The meniscus of Mount-Quick Mounting Media must thoroughly harden (but remain pliable) on the slide before proceeding. To avoid brittleness do not exceed 60°C during the hardening process.
- If a hotplate was used to initially dry slides or melt paraffin after original sectioning, it will be difficult to remove an entire intact section from the slide. Extended soaking of mounting media and tissue section does not improve results.
- If Mount-Quick is not completely dissolved from the tissue section, subsequent staining may be compromised.
- The use of xylene substitutes has not been tested with this product.



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#### **REFERENCES:**

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- Kubier, Patty and Rodney Miller. "Tissue Protection Immunohistochemistry." American Journal of Clinical Pathology 117 (2002): 194-198.
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- 6. Modifications developed by Newcomer Supply Laboratory.