APPLICATION:
Newcomer Supply Mount-Quick Mounting Media, is a multi-use product with applications as a standard mounting media as well as a liquid coverslip (coverglass free) mounting media.

Mount-Quick Mounting Media can also be used in tissue/cell transfer procedures to transfer tissue sections or cell preparations from a prepared microscopic slide when specimen availability is limited and additional diagnostic workup is necessary. Examples when tissue/cell transfer with Mount-Quick Mounting Media 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
- Salvaging/restoring broken slides back to a whole mount

This tissue/cell transfer procedure will take time to accomplish steps properly and obtain a well prepared end product. Reduced timings and short cuts should not be taken. Practicing the technique prior to performing on specimens with limited availability is highly suggested. Cellular and staining quality of tissues/smears will not be affected and histochemical, immunohistochemistry and cytochemical procedures can be performed on transferred samples with reliable results.

METHOD:

Technique: Coverslipping: Paraffin or frozen sections
Tissue/cell transfer: Stained and unstained paraffin sections, cytology preparations and smears.

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

TISSUE/CELL TRANSFER PROCEDURE:
1. Mark the designated tissue area(s) to be the focus of the tissue/cell transfer on underside of the original slide with a HistoTec™ Pen.
2. For previously stained sections:
   a. Soak the original slide in xylene until coverslip is easily 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 (page 2).
3. For unstained paraffin sections or smears:
   a. Soak slides in several changes of xylene, a minimum of 10 minutes. Do not proceed through alcohol steps.
4. Spread Mount-Quick Mounting Media on xylene-coated slides with an applicator stick or pipette tip. Use sufficient Mount-Quick to form a meniscus over the entire tissue section or cell preparation.
   a. Slide must be xylene coated and not allowed to dry out.
   b. See Procedure Note #2 (page 2).
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 #3 (page 2).
6. Mark the surface of the hardened mounting media meniscus to corresponding areas marked on the underside of the slide (Step #1) with HistoTec™ Pen to maintain tissue orientation in the transfer process.
7. Immerse the slide in a Coplin jar of water warmed in a 45°C-60°C water bath; soak for 90 minutes to 3 hours.
8. Slowly pry meniscus off at the edges with a scalpel blade. If the mounting media does not peel off easily, return to warm Coplin jar and continue soaking.
   a. See Procedure Note #4 (page 2).
9. Moisten the charged/adhesive slide(s) that will receive the transferred segment(s) with water.
10. Divide transferred segment into multiple sections: once media section is removed from the original slide, cut section with a water moistened scalpel blade or surgical scissors into desired segments as marked/scored on mounting media surface.
   a. Place each cut segment, meniscus/curved side up, onto a moistened charged/adhesive slide in sequential order as oriented on the original slide.
11. To transfer one intact segment of tissue; place on the moistened charged/adhesive slide, meniscus/curved side up.
12. Soak a piece of gauze in warm water; place gauze over the tissue section. Using thumb, press gauze flat transferring water to the section, flattening edges and sealing transferred section to slide.
   a. If a transferred section is inadvertently placed upside down, the specimen will not adhere to the slide and will be lost in further procedure steps.
13. Place slide(s) in a 37°C-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 the Mount-Quick compound is completely dissolved.
   a. See Procedure Note #5 (page 2).
15. Re-hydrate through two changes each of 100% and 95% ethyl alcohols, 10 dips each. Wash well with distilled water.
   a. See Procedure Note #6 (page 2).
16. The specimen is ready for histochemical, immunohistochemical or cytochemical staining.

RESULTS:
References indicate that the staining quality of tissues/smears and antigenicity of cells after the application of this technique remain unaltered.
PROCEDURE NOTES:

1. If any residual mounting medium remains on the slide, tissue transfer and staining may be compromised.
2. Use Mount-Quick Mounting Media in well ventilated areas or under a fume hood.
3. The meniscus of Mount-Quick Mounting Media must be thoroughly hardened on the slide before proceeding. It is critical that the meniscus hardens but still remains pliable. To avoid brittleness do not exceed temperatures above 60°C during the hardening process.
4. If a hotplate was used in place of an oven to dry slides and/or melt paraffin after the 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.
5. If Mount-Quick is not completely dissolved from the tissue section(s), subsequent staining may be compromised.
6. If necessary, decolorize previously stained transferred sections prior to performing additional diagnostic workup. Rehydration through alcohols will remove most counterstains; 1-2 minutes in Acid Alcohol 1% (Part 10011) will remove hematoxylin.
7. The use of xylene substitutes has not been tested with this product or technique.

REFERENCES:

8. Modifications developed by Newcomer Supply Laboratory.