

TissueBond™ Reagent

- Catalog No.:** K 013
- Intended Use:** To prepare glass slides for superior tissue adhesion of paraffin and frozen tissue sections.
- Introduction:** Proper tissue adhesion to glass slides is a critical step in immunohistochemistry. Good immunostaining may require harsh pretreatment of tissues for antigen retrieval (e.g. proteolytic enzyme digestion, boiling in high pH buffer, treatment with detergents or saponin). Improper adhesion of tissue sections can lead to poor quality staining or even loss of tissue sections. White glue, albumen, chrome-gelatin, and poly-L-lysine increase background staining. There is a need for a tissue adhesive that can irreversibly bind tissue sections to glass without creating background staining. Glass treated with TissueBond can be used for both paraffin and frozen tissue sections.
- Principle:** TissueBond reacts with silica glass to change its surface chemistry so that it may bond either ionically or covalently with aldehyde and ketone groups in tissue sections.
- Format:** 7 mL slightly viscous clear liquid
- Storage:** Store at 2-8°C. Do not use beyond the expiration date stated on the label.
- Working Solution:** Note: Work in a chemical fume hood with appropriate ventilation and personal protective equipment. Once the bottle has been opened, use it immediately. Prolonged storage is not recommended. Discard unused working solution.
- i) Working solution should be prepared just prior to use.
 - ii) Transfer entire contents (7 mL) of TissueBond into an **acetone-compatible** container.
 - iii) Add dry acetone to make a volume of 350mL and stir well.
- Procedure:**
- i) Place slides in a metallic or acetone-resistant slide holder. Clean slides by immersing them in acetone for 1minute.
 - ii) Immerse slides in TissueBond working solution for 30 seconds.
 - iii) Remove and drain slides. Rinse slides thoroughly with deionized water three times. Change the water after every rinse. Avoid creating water bubbles by gently agitating the slide holder. Air dry slides at room temperature. Once dried, slides can be used immediately or can be stored in a box at room temperature for future use.
- Precautions:** This material is corrosive and can cause skin irritation. Avoid contact with clothes and exposed skin. If contacted, flush immediately with tap water. Follow instructions provided by local authorities for disposal. Contact DBS for MSDS.

IVD: For In Vitro Diagnostic Use

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