

# Instructions For Use KT 002-IFU

Rev. Date: Sept. 28, 2020

Revision: 5

Page 1 of 2

626 Wilshire Blvd, Suite 410 Los Angeles, CA 90017 - Tel. +1 (408) 580-1396 [www.genebiosolution.com](http://www.genebiosolution.com)

## Alcian Blue (pH 1.0) Stain Kit

**Description:** The Alcian Blue (pH 1.0) Stain Kit is intended for use in the histological visualization of strongly sulfated mucosubstances.

Strongly Sulfated Mucosubstances: Blue  
Nuclei: Red  
Background: Pink

**Uses/Limitations:** For In-Vitro Diagnostic use only.  
Histological applications.  
Do **not** use past expiration date.  
Use caution when handling these reagents.

**Control Tissue:** Small Intestine  
Appendix  
Colon

### Availability/Contents:

<u>Kit Contents</u>	<u>Volume</u>	<u>Storage</u>
Alcian Blue, pH 1.0	250 ml	15-30°C
Nuclear Fast Red Solution	250 ml	15-30°C
Hydrochloric Acid Solution	500 ml	15-30°C

**Precautions:** This product is a single-use, non-sterile, in vitro diagnostic device.  
Avoid contact with skin and eyes.  
Harmful if swallowed.  
Follow all Federal, State, and local regulations regarding disposal.  
Use in chemical fume hood whenever possible.

### Procedure notes:

Maintaining proper pH is critical to preventing false-positive mucin staining. 'Working Rinse Solution' should fall within pH  $1.0 \pm 0.15$  and is used both before and after the Alcian Blue to control pH. Rinsing with deionized water or any other rinse may affect pH and cause non-specific staining. We recommend running at least one slide without the counterstain to compare intensity with slides that have been counterstained. Below procedure is written for slides laying horizontally that are stained by applying a small amount of solution.

### Procedure

1. Deparaffinize sections if necessary and hydrate to distilled water.



### Gene Biosolution

626 Wilshire Blvd, Suite  
410 Los Angeles, CA  
90017

Tel: +1 (408) 580-1396

## Instructions For Use KT 002-IFU

Rev. Date: Sept. 28, 2020

Revision: 5

Page 2 of 2

626 Wilshire Blvd, Suite 410 Los Angeles, CA 90017 - Tel. +1 (408) 580-1396 [www.genebiosolution.com](http://www.genebiosolution.com)

2. Make up sufficient amount of 'Working Rinse Solution' by mixing the following:
  - 1 part of Hydrochloric Acid Solution (1N)
  - 9 parts Deionized water

Notes: *-An example mixture would be 10mls Hydrochloric Acid Solution + 90mls Deionized Water*  
*-We suggest making at least 10mls per slide. A smaller amount is required for step 3 and a larger amount used in step 5 for rinsing.*
3. Apply a small amount (<2ml/slide) of 'Working Rinse Solution' to tissue for 30 seconds to adjust pH in preparation for staining. Save remaining 'Working Rinse Solution' for step 5.
4. Drain slide and without rinsing, stain tissue section with Alcian Blue Solution (pH 1.0) solution for 30 minutes
5. Quickly and thoroughly rinse excess stain off slide using remaining 'Working Rinse Solution'.
6. Carefully blot and allow slide to air dry.
7. If preferred, counter stain in Nuclear Fast Red (Enhanced Stability) for 1-2 minutes with occasional agitation. Rinse very briefly in deionized water and allow to completely air dry again.
8. Clear, and mount in synthetic resin.



### Gene Biosolution

626 Wilshire Blvd, Suite  
410 Los Angeles, CA  
90017

Tel: +1 (408) 580-1396