

## 25X Proteinase K

Catalog Number: K 030

Document #: DS-2014-A  
Effective Date: 2/1/2015

### Intended Use

For In Vitro Diagnostic Use.

### Product Description

Proteinase K is specifically formulated to achieve proteolytic digestion of formalin fixed, paraffin embedded tissue sections prior to performing in situ hybridization procedures.

### Summary and Explanation

Proteolytic digestion of formalin fixed tissues improves the accessibility of target DNA to biotinylated probes, which results in better in situ staining.

### Format

Stabilized and clear 25X Concentrate

### Volume/UOM

2 mL

### Storage and Handling

Store at 2-8°C. Proteinase K is stable for 6 months. For long term storage, aliquot Proteinase K into smaller sizes and store at -20°C. Do not use after expiration date printed on label.

### Preparation of Working Solutions

1. Place 100µL Proteinase K solution in a glass tube, add 2.4mL distilled water, and mix.

### Protocol Recommendations

1. Optimal digestion conditions will vary depending on fixation conditions and should be optimized by the end user.
2. Incubation of tissue sections for 10-30 minutes at 37°C is sufficient for in situ.

### Quality Control

Refer to CLSI Quality Standards for Design and Implementation of Immunohistochemistry Assays; Approved Guideline-Second edition (I/LA28-A2). CLSI Wayne, PA, USA ([www.clsi.org](http://www.clsi.org)). 2011.

### Troubleshooting

Contact Diagnostic BioSystems Technical Support at (925) 484-3350, extension 2, [techsupport@dbiosys.com](mailto:techsupport@dbiosys.com) or your local distributor to report unusual staining results.

### Warranty

There are no warranties, expressed or implied, which extend beyond this description. Diagnostic BioSystems is not liable for property damage, personal injury, or economic loss caused by this product.

### Performance Characteristics

The protocols for a specific application can vary. These include, but are not limited to: fixation, heat-retrieval method, incubation times, tissue section thickness and detection kit used. Due to the superior sensitivity of these unique reagents, the recommended incubation times and titers listed are not applicable to other detection systems, as results may vary. The data sheet recommendations and protocols are based on exclusive use of Diagnostic BioSystems products. Ultimately, it is the responsibility of the investigator to determine optimal conditions. These products are tools that can be used for interpretation of morphological findings in conjunction with other diagnostic tests and pertinent clinical data by a qualified pathologist.

### Precautions

1. Wear disposable gloves when handling reagents.
2. Specimens, before and after fixation, and all materials exposed to them should be handled as if capable of transmitting infection and disposed of with proper precautions. Never pipette reagents by mouth and avoid contacting the skin and mucous membranes with reagents and specimens. If reagents or specimens come in contact with sensitive areas, wash with copious amounts of water.
3. Microbial contamination of reagents may result in an increase in nonspecific staining.
4. Incubation times or temperatures other than those specified may give erroneous results. The user must validate any such change.
5. Do not use reagent after the expiration date printed on the label.
6. The MSDS is available upon request.
7. Consult OSHA, federal, state or local regulations for disposal of any toxic substances.

