



BIOSYSTEMS

# BOND RNAscope® Protease

**Catalog No: AR9773**

## Intended Use

This reagent is a General Purpose Reagent. For Laboratory Use.

The BOND RNAscope® Protease solution is for enzymatic digestion of formalin-fixed, paraffin-embedded tissue on the BOND automated system. The clinical interpretation of any staining or its absence should be complemented by morphological studies and proper controls and should be evaluated within the context of the patient's clinical history and other diagnostic tests by a qualified pathologist.

## Summary and Explanation

The BOND RNAscope® Protease reagent is used for pretreatment of FFPE (formalin fixed, paraffin-embedded) tissue in conjunction with BOND reagents on the automated BOND-III system. The enzyme pretreatment permeabilizes the tissue and prepares the sample for hybridization with a target RNA specific oligonucleotide probe and subsequent detection using the BOND RNAscope® Detection Reagents.

## Reagents Provided

BOND RNAscope® Protease

Total volume = 12 mL, sufficient for 60 tests.

## Dilution and Mixing

BOND RNAscope® Protease is ready to use. Reconstitution, mixing, dilution or titration of this reagent is not required.

## Materials Required But Not Provided

Refer to "Using BOND Reagents" in your BOND user documentation for a complete list of materials required for specimen treatment and *in situ* hybridization using the Leica BOND-III system.

## Storage and Stability

Store at 2–8 °C. The product is stable under these conditions up to the expiry date indicated on the container label.

There are no obvious signs that could indicate contamination and/or instability.

Return to 2–8 °C immediately after use.

Storage conditions other than those specified above must be verified by the user<sup>1</sup>.

## Precautions

- This reagent is a General Purpose Reagent. For laboratory use.

**BOND RNAscope® Protease**  
Contains a mixture of 5-chloro-2-methyl-4-isothiazolin-3-one and 2-methyl-2H-isothiazol-3-one (3:1).

GHS07: Exclamation mark.

Signal words: Warning

H317: May cause an allergic skin reaction.

P261: Avoid breathing dust/fumes/gas/mist/vapours/spray.

P272: Contaminated work clothing should not be allowed out of the workplace.

P280: Wear protective gloves/protective clothing/eye protection/face protection.

P302+352: IF ON SKIN: Wash with plenty of water.

P333+313: If skin irritation or rash occurs: Get medical attention.

P362+364: Take off contaminated clothing and wash it before reuse.

P501: Dispose of contents/container to hazardous or special waste collection point.

- To obtain a copy of the Safety Data Sheet contact your local distributor or regional office of Leica Biosystems, or alternatively, visit the Leica Biosystems' Web site, [www.LeicaBiosystems.com](http://www.LeicaBiosystems.com)
- 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<sup>2</sup>. Never pipette reagents by mouth and avoid contacting the skin and mucous membranes with reagents or specimens. If reagents or specimens come in contact with sensitive areas, wash with copious amounts of water. Seek medical advice.
- Consult Federal, State or local regulations for disposal of any potentially toxic components.
- Measures to minimize microbial contamination of reagents need to be taken to prevent the occurrence of non-specific staining.
- Retrieval, incubation times or temperatures other than those specified may give erroneous results. Any such change must be validated by the user.

## Instructions for Use

For use of BOND RNAscope® Protease refer to "Dilution and Mixing".

## Product Specific Limitations

The appropriate enzyme concentration and incubation may vary due to variation in tissue fixation and must be determined by the user. Overdigestion of tissue sections may result in loss of tissue morphology. Negative reagent controls should be used when optimizing retrieval conditions.

## Troubleshooting

Reference 3 may aid in remedial action.

Contact your local distributor or the regional office of Leica Biosystems to report unusual staining.

## Further Information

Further information on *in situ* hybridization with BOND reagents, under the headings Principle of the Procedure, Materials Required, Specimen Preparation, Quality Control, Assay Verification, Interpretation of Staining, Key to Symbols on Labels, and General Limitations can be found in "Using BOND Reagents" in your BOND user documentation.

## Bibliography

1. Clinical Laboratory Improvement Amendments of 1988, Final Rule 57 FR 7163 February 28, 1992.
2. Villanova PA. National Committee for Clinical Laboratory Standards (NCCLS). Protection of laboratory workers from infectious diseases transmitted by blood and tissue; proposed guideline. 1991; 7(9). Order code M29-P.
3. Bancroft JD and Stevens A. Theory and Practice of Histological Techniques. 4th Edition. Churchill Livingstone, New York. 1996.

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