BOND RNAscope® Detection Reagents - BROWN

Catalog No: DS9790

Intended Use

This reagent is a General Purpose Reagent. For Laboratory Use.
The BOND RNAscope® Detection Reagents – BROWN enables the user to perform chromogenic *in situ* hybridization (CISH) on the automated Leica BOND-III system. It is intended for use with nucleic acid probes on formalin-fixed, paraffin-embedded (FFPE) tissue.

Summary and Explanation

The BOND RNAscope® Detection Reagents – BROWN consists of a series of reagents that enable visualization of RNA in FFPE (formalin fixed, paraffin-embedded) tissue following hybridization with a target RNA specific oligonucleotide probe. The sequential addition of the reagents after probe hybridization results in RNA target and signal amplification, visualized through chromogenic conversion of DAB by HRP.
The detection reagents enable chromogenic RNA ISH to be performed on the automated BOND-III system.

Reagents Provided

RNAscope® Rinse
Hematoxylin
DAB Part 1
DAB Part B
RNAscope® Bluing
RNAscope® AMP 1 DAB
RNAscope® AMP 2 DAB
RNAscope® AMP 3 DAB
RNAscope® AMP 4 DAB
RNAscope® AMP 5 DAB
RNAscope® AMP 6 DAB
RNAscope® H_2O_2

Sufficient for 60 tests.

Dilution and Mixing

BOND RNAscope® Detection Reagents – BROWN 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[1].

Rx only

Precautions

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

DAB Part 1 Contains Ethylene Glycol (>90%) and 66 mM (<10%) 3,3' diaminobenzidine tetrahydrochloride hydrate. GHS07: Exclamation mark. GHS08: Health hazard. Signal words: Danger.	H302: Harmful if swallowed. H341: Suspected of causing genetic defects. H350: May cause cancer.	P201: Obtain special instructions before use. P202: Do not handle until all safety precautions have been read and understood. P280: Wear protective gloves/protective clothing/eye protection/face protection. P264: Wash hands thoroughly after handling. P270: Do not eat, drink or smoke when using this product. P301+312: IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell. P330: Rinse mouth. P308+313: IF exposed or concerned: Get medical advice/attention.
RNAscope® AMP 1 DAB Contains Formamide (<30%). GHS08: Health hazard. Signal words: Danger.	H360D: May damage the unborn child.	P201: Obtain special instructions before use. P202: Do not handle until all safety precautions have been read and understood. P280: Wear protective gloves/protective clothing/eye protection/face protection. P308+313: IF exposed or concerned: Get medical attention. P501: Dispose of contents/container to hazardous or special waste collection point.
RNAscope® AMP 2 DAB Contains a mixture of 5-chloro-2-methyl-4-isothiazolin-3-one and 2-methyl-2*H* -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.
RNAscope® AMP 3 DAB Contains Formamide (<30%). GHS08: Health hazard. Signal words: Danger.	H360D: May damage the unborn child.	P201: Obtain special instructions before use. P202: Do not handle until all safety precautions have been read and understood. P280: Wear protective gloves/protective clothing/eye protection/face protection. P308+313: IF exposed or concerned: Get medical attention. P501: Dispose of contents/container to hazardous or special waste collection point.

RNAscope® AMP 4 DAB Contains a mixture of 5-chloro-2-methyl-4-isothiazolin-3-one and 2-methyl-2*H* -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.
RNAscope® AMP 5 DAB Contains a mixture of 5-chloro-2-methyl-4-isothiazolin-3-one and 2-methyl-2*H* -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' website, 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[2]. 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

BOND RNAscope® Detection Reagents – BROWN is developed for use on the automated Leica BOND-III system for use with BOND ancillary reagents and user selected RNA specific oligo probes. The default staining protocol for RNAscope® Detection Reagents - BROWN on BOND is RNAscope DAB ISH Protocol. The test protocol will vary according to the probe selected by the user; please refer to the relevant Instructions for Use for further guidance. It is the responsibility of the user to validate the test prior to clinical use.

Product Specific Limitations

This product is a General Purpose Reagent. For Laboratory Use. BOND RNAscope® Detection Reagents – BROWN has been optimized for use with BOND ancillary reagents. Laboratories may use their own probes provided they have been validated by the laboratory. Users who deviate from recommended test procedures must accept responsibility for interpretation of patient results under these circumstances. This insert is not intended or designed to describe, implicitly or indirectly, the performance characteristics of any reagent, recommended protocols, or how reagents should be used clinically.

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.

Date of Issue

22 February 2019

Manufactured by ACD for
Leica Biosystems Newcastle Ltd
Balliol Business Park West
Benton Lane
Newcastle Upon Tyne NE12 8EW
United Kingdom
✆ +44 191 215 4242

Leica Biosystems Canada
71 Four Valley Drive
Concord, Ontario L4K 4V8
Canada
✆ +1 800 248 0123

Leica Biosystems Inc
1700 Leider Lane
Buffalo Grove IL 60089
USA
✆ +1 800 248 0123

Leica Biosystems Melbourne Pty Ltd
495 Blackburn Road
Mt Waverly VIC 3149
Australia
✆ +61 2 8870 3500