

Peroxidized 1

Peroxide Blocking Reagent
902-BRR968-030723

BIOCARE
M E D I C A L

Available Product Formats	
Catalog Number	Volume
BRR968H	25 mL
BRR968M	500 mL
BRR968MM	1000 mL

Intended Use:

For Research Use Only. Not for use in diagnostic procedures.

Background Information:

Peroxidized 1 is a highly stable form of hydrogen peroxide for blocking endogenous peroxidase. It is very effective for blocking non-specific staining in red blood cells. It is non-flammable, safer and less toxic when compared to hydrogen peroxide/methanol formulations. It can also be used on an automated staining system.

Known Applications:

Immunohistochemistry (Formalin-fixed paraffin-embedded tissues)

Materials and Methods:

Reagents Provided:

Kit Catalog No.	Component Description	Quantity x Volume
BRR968H	Peroxidized 1	1 x 25 mL
BRR968M	Peroxidized 1	1 x 500 mL
BRR968MM	Peroxidized 1	1 x 1000 mL

* Refer to the Biocare Medical website located at <http://biocare.net> for information regarding catalog numbers and ordering.

Supplied As:

Buffered saline solution, contains 10% hydrogen peroxide, pH 6.5 – 6.7, and less than 0.1% Sodium Azide preservative. See Safety Data Sheet for additional details.

Reconstitution, Dilution and Mixing:

The Peroxidized 1 is optimized for use with Biocare antibodies and ancillary reagents and ready to use with Biocare IHC antibodies and ancillary reagents. No reconstitution, mixing, dilution, or titration is required.

Storage and Stability:

Store at 2°C to 8°C away from light. The product is stable to the expiration date printed on the vial label when stored under these conditions. Do not use after expiration date. Storage under any condition other than those specified must be verified. The reagent is ready-to-use and should not be diluted. The stability of user diluted reagent has not been established by Biocare.

Staining Protocol Recommendations

The below are programming and protocol recommendations to assist the user when staining manually and/or using one of Biocare's Automated Staining Platforms for research applications. The user is responsible for further optimizations of the protocol.

1. Deparaffinize tissues and hydrate to water.
2. Apply Peroxidized 1 and incubate for 5 minutes at RT.
3. If necessary, perform a heat retrieval method. Wash slides with several changes of wash buffer. Slides are now ready for application of next reagent.

Technical Notes: If Peroxidized 1 causes an unacceptable decrease in specific staining, dilute Peroxidized 1 (1:3, 1:5, etc. in DI water) or if the tissue has high amounts of endogenous peroxidase activity, increase the incubation time to 10 minutes.

Limitations:

This product is provided for Research Use Only (RUO) and is not for use in diagnostic procedures. Suitability for specific applications may vary and it is the responsibility of the end user to determine the appropriate application for its use.

Precautions:

1. Kit reagent(s) contain less than 0.1% sodium azide. Concentrations less than 0.1% are not reportable hazardous materials according to U.S. CFR 1910.1200, OSHA Hazard communication and EC Directive 91/155/EC. Sodium azide (NaN₃) used as a preservative is toxic if ingested. Sodium azide may react with lead and copper plumbing to form highly explosive metal azides. Upon disposal, flush with large volumes of water to prevent azide build-up in plumbing. (Center for Disease Control, 1976, National Institute of Occupational Safety and Health, 1976)¹
2. Kit reagents contain less than 0.05% ProClin 300. Wear gloves and protective clothing and take reasonable precautions when handling as ProClin is classified as an irritant and may cause skin contact sensitization. Avoid contact with eyes, skin, and mucous membranes.
3. Handle materials of human or animal origin as potentially biohazardous and dispose such materials with proper precautions. In the event of exposure, follow the health directives of the responsible authorities where used.^{2,3}
4. 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 into contact with sensitive areas, wash with copious amounts of water.⁴
5. Microbial contamination of reagents may result in an increase in nonspecific staining.
6. Incubation times or temperatures other than those specified may give erroneous results. The user must validate any such change.
7. Do not use reagent after the expiration date printed on the vial.
8. The reagent is optimized for use with Biocare antibodies and ancillary reagents. Refer to the primary antibody and other ancillary reagent instructions for use for recommended protocols and conditions for use.
9. Follow local and/or state authority requirements for method of disposal.
10. The SDS is available upon request and is located at <http://biocare.net>.

This Peroxidized 1 contains components classified as indicated in the table below in accordance with the Regulation (EC) No. 1272/2008.

Hazard	Code	Hazard Statement
N/A	H402	Harmful to aquatic life.

Technical Support:

Contact Biocare's Technical Support at 1-800-542-2002 for questions regarding this product.

Troubleshooting Guide:

1. No staining of any slides – Check to determine appropriate positive control tissue, antibody, and detection products have been used. Check for incomplete or improper wax removal or pretreatment.
2. Weak staining of all slides – Check to determine appropriate positive control tissue, antibody, and detection products have been used.
3. Excessive background of all slides – There may be high levels of endogenous biotin (if using biotin-based detection products), endogenous HRP activity converting chromogen to colored end product (use peroxidase block), or excess non-specific protein interaction (use a protein block, such as serum- or casein-based blocking solution).
4. Tissue sections wash off slides during incubation – Check slides to ensure they are positively charged.
5. Specific staining too dark – Check protocol to determine if proper antibody titer was applied to slide, as well as proper incubation times for all reagents. Additionally, ensure the protocol has enough washing steps to remove excess reagents after incubation steps are completed.



60 Berry Drive
Pacheco, CA 94553
USA

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Tel: 800-799-9499 | www.biocare.net | Fax: 925-603-8080

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References:

1. Center for Disease Control Manual. Guide: Safety Management, NO. CDC-22, Atlanta, GA. April 30, 1976 "Decontamination of Laboratory Sink Drains to Remove Azide Salts.
2. Occupational Safety and Health Standards: Occupational exposure to hazardous chemicals in laboratories. (29 CFR Part 1910.1450). Fed. Register.
3. Directive 2000/54/EC of the European Parliament and Council of 18 September 2000 on the protection of workers from risks related to exposure to biological agents at work.
4. Clinical and Laboratory Standards Institute (CLSI). Protection of Laboratory Workers from Occupationally Acquired Infections; Approved Guideline-Fourth Edition CLSI document M29-A4 Wayne, PA 2014.



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