

Diva Decloaker, RTU

Antigen Retrieval
902-2004B-120922

BIOCARE
M E D I C A L

Available Product Formats	
Catalog Number	Volume
BRR2004BMM	1000 mL
BRR2004BG1	1 gallon

Intended Use:

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

Summary & Explanation:

The Diva Decloaker, RTU is designed as a citrate-based buffer used in heat-induced antigen retrieval (HIER) of formalin-fixed, paraffin embedded (FFPE) tissues. HIER is the process of heating the slide-mounted specimen material in an antigen retrieval solution, followed by a cooling-off period. Retrieval solutions with paraffin emulsifiers (surfactants) followed by a rinsing reagent can deparaffinize and retrieve tissues, thus eliminating the deparaffinization step with xylenes and alcohols.

Known Applications:

Immunohistochemistry (Formalin-fixed paraffin-embedded tissues)

Materials and Methods:

Reagents Provided:

Kit Catalog No.	Component Description	Quantity x Volume
BRR2004BMM	Diva Decloaker, RTU	1 x 1000 mL
BRR2004BG1	Diva Decloaker, RTU	1 x 1 gallon

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

Supplied As:

Buffered Citrate solution, pH 6.1 – 6.3, and less than 0.05% ProClin 300. See Safety Data Sheet for additional details.

Reconstitution, Dilution and Mixing:

The Diva Decloaker, RTU reagent is optimized and ready to use with Biocare antibodies and ancillary reagents. No reconstitution, mixing, dilution, or titration is required.

Storage and Stability:

Store at room temperature (RT). 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 kit reagent(s) are 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.

Apply Diva Decloaker, RTU as an application prior to blocking reagent incubations.

1. Deparaffinize tissues and hydrate to water. If necessary, block for endogenous peroxidase and wash in DI water.
2. Place slides into 1X retrieval solution in a slide container (e.g., Coplin jar, Tissue -Tek™ staining dish or metal slide canister).
3. Retrieve sections under pressure using Biocare's Decloaking Chamber. Follow the recommendations on the antibody data sheet and Decloaking Chamber User Manual.
4. Check solution for appropriate color change. (See Technical Note #1)
5. Gently rinse slides by gradually adding DI water to the solution, then remove slides and rinse with DI water.

Technical Notes:

1. Solution is a pale-yellow color. When the solution reaches 80-125°C, the solution turns yellow and indicates that the high temperature solution is at correct pH. Should the pH rise above 7.0, the solution turns a fuchsia red color. Should the pH drop too low, the solution turns a pink color.
2. If using Biocare's Desert Chamber Pro (a programmable turbo-action drying oven), dry sections at 25°C overnight or at 37°C for 30-60 minutes and then dry slides at 60°C for 30 minutes.
3. Use positive charged slides (use Biocare's Kling-On HIER Slides) and cut tissues at 4-5 microns. Do not use any adhesives in the water bath. Poor fixation and processing of tissues will cause tissue sections to fall off the slides, especially fatty tissues such as breast. Tissues should be fixed a minimum of 6-12 hours.
4. Protocol time and temperatures for HIER can vary depending on the Decloaking Chamber model used. Please refer to the relevant Decloaking Chamber manual for appropriate protocol times and temperatures.

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 reagents contain less than 0.05% ProClin 300 and/or less than 1% ProClin 950. 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.
2. 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.^{1,2}
3. 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.³
4. Microbial contamination of reagents may result in an increase in nonspecific staining.
5. Incubation times or temperatures other than those specified may give erroneous results. The user must validate any such change.
6. Do not use reagent after the expiration date printed on the vial.
7. The antigen retrieval reagents are optimized and ready to use.
8. Follow local and/or state authority requirements for method of disposal.
9. The SDS is available upon request and is located at <http://biocare.net>.
10. Report any serious incidents related to this device by contacting the local Biocare representative and the applicable competent authority of the Member State or country where the user is located.

This Diva Decloaker, RTU contains components classified as indicated in the table below in accordance with the Regulation (EC) No. 1272/2008

Hazard	Code	Hazard Statement
N/A	H401	Toxic to aquatic life.

Technical Support:

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



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References:

1. Occupational Safety and Health Standards: Occupational exposure to hazardous chemicals in laboratories. (29 CFR Part 1910.1450). Fed. Register.
2. 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.
3. 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.