

# Borg Decloaker, RTU

Pretreatment Reagent  
901-BD1000-072417

**BIOCARE**  
M E D I C A L

**Catalog Number:** BD1000S-250, MM, G1; BDS1000G1

**Description:** 250, 1000 ml, 1 gal; Ready-to-use

## Intended Use:

Borg Decloaker, RTU is a buffered solution that is intended for laboratory use in heat-induced antigen retrieval of formalin-fixed paraffin-embedded (FFPE) tissues for immunohistochemistry (IHC) procedures. The clinical interpretation of any staining of its absence should be complimented by morphological studies using proper controls and should be evaluated within the context of the patient's clinical history and other diagnostic tests by a qualified pathologist.

## Summary & Explanation:

Borg Decloaker is a heat retrieval solution. For many antibodies, titers will increase compared to other heat retrieval buffers. Borg Decloaker incorporates Assure™ technology, a color-coded high temperature pH indicator solution. The end-user is assured by visual inspection that the solution is at the correct dilution and pH. This product is specially formulated for superior pH stability at high temperatures and will help prevent the possibility of losing pH sensitive antigens. Borg Decloaker is nontoxic, non-flammable, odorless and sodium azide and thimerosal free. When used in conjunction with Aqua DePar (ADP1002) or Hot Rinse (HTR1001) and Biocare's digital electric pressure cooker (Decloaking Chamber), the user can deparaffinize and pretreat tissues in only two steps. Xylenes and alcohols are not needed for deparaffinization, thus saving valuable technician time and reducing costs for reagents and hazardous waste removal.

## Known Applications:

Immunohistochemistry (formalin-fixed paraffin-embedded tissues)

## Supplied As:

### 250ml

Borg Decloaker, ready-to-use (BD1000S-250)

### 1000ml

Borg Decloaker, ready-to-use (BD1000MM)

### 1gal

Borg Decloaker, ready-to-use (BD1000G1)

### 1gal + Steam Strips

Borg Decloaker, ready-to-use (BDS1000G1)

Steam Monitor Strips, 25 (613H)

## Materials and Reagents Needed But Not Provided:

Microscope slides, positively charged

Desert Chamber\* (Drying oven)

Positive and negative tissue controls

Xylene (Could be substituted with xylene substitute\*)

Ethanol or reagent alcohol

Decloaking Chamber\* (Pressure cooker)

Deionized or distilled water

Wash buffer\*(TBS/PBS)

Enzyme digestion\*

Avidin-Biotin Blocking Kit\*(Labeled Streptavidin Kits Only)

Peroxidase block\*

Protein block\*

Primary antibody\*

Negative control reagents\*

Detection kits\*

Detection components\*

Chromogens\*

Hematoxylin\*

Bluing reagent\*

Mounting medium\*

\* Biocare Medical Products: Refer to a Biocare Medical catalog for further information regarding catalog numbers and ordering information. Certain reagents listed above are based on specific application and detection system used.

## Storage and Stability:

Store at room temperature. Do not use after expiration date printed on vial. If reagents are stored under conditions other than those specified in the package insert, they must be verified by the user.

## Protocol Recommendations:

### One-Step Heat Retrieval:

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 by gradually adding DI water to the solution, then remove slides and rinse with DI water.

### Two-step Deparaffinization and Heat Retrieval Method with Hot Rinse (HTR1001):

1. Dry tissue sections for 1 hour at 37°C and then dry slides for 10-30 minutes at 60°C.
2. Dilute concentrated Hot Rinse at a ratio of 1:25 (1 ml Hot Rinse to 24 ml of deionized water).
3. Fill a Coplin Jar, Tissue-Tek™ staining dish or metal slide canister with 1X Hot Rinse.
4. Fill a second container with 1X Borg Decloaker.
5. Place both solutions into the Decloaking Chamber.
6. Place the slides into the slide container with the 1X HIER solution.
7. Retrieve sections under pressure using Biocare's Decloaking Chamber. Follow the recommendations on the antibody data sheet and Decloaking Chamber User Manual.
8. Check solution for appropriate color change. (See Technical Note #1)
9. Transfer slides to the slide container with 1X Hot Rinse and agitate 20 dips.
10. Gently rinse by gradually adding DI water to the solution, then remove slides and rinse with DI water.

### Two-step Deparaffinization and Heat Retrieval Method with Aqua DePar (ADP1002):

1. Dry tissue sections for 1 hour at 37°C and then dry slides for 10-30 minutes a 60°C.
2. Dilute concentrated Aqua DePar at a ratio of 1:10 (1 ml Aqua DePar to 9 ml of deionized water).
3. Fill a Coplin Jar, Tissue-Tek™ staining dish or metal slide canister with 1X Aqua DePar.
4. Fill a second container with 1X Borg Decloaker.
5. Place both solutions into the Decloaking Chamber.
6. Preheat the solutions for 10 minutes at 65-75°C (DC 2002/2008) or 80°C (DC NxGen).
7. Place the slides in the preheated Aqua DePar and agitate 10 dips. Let slides sit in solution for 5-10 minutes.

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Rev: 062117

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- Transfer slides into the second container with Borg and agitate 10-20 dips. Remove the Aqua DePar solution from the Decloaking Chamber.
- Retrieve sections under pressure using Biocare's Decloaking Chamber. Follow the recommendations on the antibody data sheet and Decloaking Chamber User Manual.
- Check solution for appropriate color change. (See Technical Note #1)
- Gently rinse by gradually adding DI water to the solution, then remove slides and rinse with DI water.

## Technical Notes:

- RTU or 1X Borg Decloaker is a pale purple color. When the solution reaches 80-125°C, the solution turns a faint purple color and indicates that the high temperature solution is at correct pH. A yellow or red solution indicates an incorrect pH.
- 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.
- 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.
- If tissues lose adhesion to the slide during retrieval, this can be mitigated by immersion of slides into 10% formalin for 10 minutes after deparaffinization in xylenes and rehydration in alcohols and water.
- 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:

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 Biocare products. Ultimately, it is the responsibility of the investigator to determine optimal conditions. The clinical interpretation of any positive or negative staining should be evaluated within the context of clinical presentation, morphology and other histopathological criteria by a qualified pathologist. The clinical interpretation of any positive or negative staining should be complemented by morphological studies using proper positive and negative internal and external controls as well as other diagnostic tests.


## 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

## Precautions:

- This product is not classified as hazardous. The preservative used in this reagent is Proclin 950 and the concentration is less than 0.25%. Overexposure to Proclin 950 can cause skin and eye irritation and irritation to mucous membranes and upper respiratory tract. The concentration of Proclin 950 in this product does not meet the OSHA criteria for a hazardous substance. Wear disposable gloves when handling reagents.

## Precautions:

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## Precautions Cont'd:

- 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.
- Microbial contamination of reagents may result in an increase in nonspecific staining.
- Incubation times or temperatures other than those specified may give erroneous results. The user must validate any such change.
- The SDS is available upon request and is located at <http://biocare.net/>.
- Consult OSHA, federal, state or local regulations for disposal of any toxic substances. Proclin™ is a trademark of Rohm and Haas Company, or of its subsidiaries or affiliates.

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