

# Deep Space Black™ Chromogen Kit

Chromogen  
902-4015-081123

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

Available Product Formats	
Catalog Number	Volume
BRR4015H	25 mL
BRR4015L	100 mL
OPRR4015T60	60 Tests

## Intended Use:

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

## Background Information:

Deep Space Black™ Chromogen is a well-established chromogen used in IHC staining protocols that in the presence of a horse-radish peroxidase (HRP) enzyme, produces a black-gray precipitate that is insoluble in organic solvents and can be coverslipped with a permanent mounting media.

## Known Applications:

Immunohistochemistry (formalin-fixed paraffin-embedded tissues)  
*In situ* hybridization (ISH)

## Supplied As:

Kit Catalog No.	Component Catalog No.	Component Description	Quantity x Volume
BRR4015H	BRR4014C	Deep Space Black™ Chromogen	1 x 1 mL
	BRR4013H	Deep Space Black™ Buffer	1 x 25 mL
	DB4015	Dropper Bottle	1 each
	RMVL103	Mixing Vial	1 each
BRR4015L	BRR4014C	Deep Space Black™ Chromogen	4 x 1 mL
	BRR4013H	Deep Space Black™ Buffer	4 x 25 mL
	DB4015	Dropper Bottle	1 each
	RMVL103	Mixing Vial	1 each
OPRR4015T60	OPRR4014T60	Deep Space Black™ Chromogen	1 x 3.5 mL
	OPRR4013T60	Deep Space Black™ Buffer	1 x 14.5 mL
	RMONCP180	Mixing Vials	6 x 7 mL

## Supplied As:

### Deep Space Black™ Chromogen

Chromogen solution. See Safety Datasheet for additional details.

### Deep Space Black™ Buffer

Buffered solution contains 3% Hydrogen Peroxide solution. See Safety Data Sheet for additional details.

## Reconstitution, Dilution and Mixing:

The Deep Space Black™ Chromogen Kit (BRR4015) is optimized and ready to use with Biocare antibodies and ancillary reagents and must be diluted just prior to use. Add 1 drop (32µL) of Deep Space Black Chromogen (BRR4014) to 1 mL of Deep Space Black Buffer (BRR4013) and mix well.

The Deep Space Black™ Chromogen Kit (OPRR4015) is optimized and ready to use with Biocare antibodies and ancillary reagents and do not require mixing before use on the ONCORE Pro X Automated Slide Stainer.

## Storage and Stability:

Store at 2°C to 8°C. 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. Diluted reagents should be used promptly; any remaining reagent should be stored at 2°C to 8°C. The stability of user diluted reagent beyond 24 hours has not been established by Biocare.

## Staining Protocol Recommendations (for IntelliPATH FLX® and manual use):

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. After application of HRP detection, rinse tissue section in TBS or PBS wash buffer.
2. Add 1 drop (32µL) of Deep Space Black Chromogen (BRR4014) to 1 mL of Deep Space Black Buffer (BRR4013) and mix well.
3. Apply Deep Space Black working solution to tissue sections. Incubate for 3-5 minutes at room temperature.
4. After Deep Space Black staining, wash in water and lightly stain with hematoxylin or other appropriate counterstain (e.g., Nuclear Fast Red).
5. Oven dry or dehydrate sections, clear and coverslip.

## Technical Notes:

1. Use TBS for washing steps.
2. Deep Space Black can be used with Warp Red, DAB, Vina Green, and Ferangi Blue for Multiplex IHC procedures.
3. An increasing intensity of the Deep Space Black reaction product can be achieved with incubations longer than 5 minutes; however, an increase in background staining may result.
4. The reaction product is insoluble in alcohols and xylene and, therefore, a variety of counterstains and permanent mounting media can be used with this chromogen kit.

## Staining Protocol Recommendations (ONCORE™ Pro X Automated Slide Staining System):

Below are programming and protocol recommendations to assist the user when staining Biocare's ONCORE Pro X Automated Slide Staining System for research applications. The user is responsible for further optimizations of the protocol.

The ONCORE Pro X will apply reagent as required in the selected protocol. Refer to the instrument manual for detailed instructions on instrument operation and additional protocol options.

## Protocol Recommendation for Chromogen:

**Deep Space Black:** 10 minutes at 37°C, (200µL application volume recommended)

**Build as Special Protocol:** Refer to instrument's operating manual for further instructions.

## 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. Microbial contamination of reagents may result in an increase in nonspecific staining.
2. Handle materials of human or animal origin as potentially biohazardous and dispose of such materials with proper precautions. In the event of exposure, follow the health directives of the responsible authorities where used.<sup>1,2</sup>

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## Precautions Cont'd:

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.<sup>3</sup>
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 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.
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>.

This Deep Space Black Chromogen Kit contains components classified as indicated in the table below in accordance with Regulation (EC) No. 1272/2008.

Hazard	Code	Hazard Statement
	H225	Highly flammable liquid and vapor.
	H302+H332 H317 H319	Harmful if swallowed or if inhaled. May cause an allergic skin reaction. Causes serious eye irritation.

## Technical Support:

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

## 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.