Vina Green™ Chromogen Kit

Chromogen Kit
902-807A-080822

BIOCARE MEDICAL

Catalog Number:	**BRR807 AH, AS, A2L**	**OPRR807A T60**
Description:	25 mL, 100 mL, 2000 mL	60 Tests

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

Summary & Explanation:
Vina Green is a novel permanent chromogen that produces a green stain in the presence of horseradish peroxidase (HRP). The kit consists of liquid Vina Green chromogen and buffer that are stable, when mixed, for at least 4 hours at room temperature. Vina Green is clearly distinguishable from Warp Red and DAB on a single slide, enabling high flexibility for its application in Multiplex IHC™. Vina Green is suitable for both immunohistochemistry (IHC) and *in situ* hybridization (ISH) applications including HPV, CMV, EBV, Kappa, Lambda, p63, HMWCK, TTF-1, Ki-67, and other targets/antigens such as blood and lymphatic vessels, and basal and myoepithelial cells.
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.

Known Applications:
Immunohistochemistry (formalin-fixed paraffin-embedded tissues).
In-situ hybridization (ISH)

Supplied As:
25 ml size
Vina Green™ Chromogen (BRR807BC) 1 x 1 mL
Vina Green™ Buffer (BRR807CH) 1 x 25 mL
Dropper Bottle (DB807)
Mixing Vial (VL103)
100 ml size
Vina Green™ Chromogen (BRR807BC) 4 x 1 mL
Vina Green™ Buffer (BRR807CH) 4 x 25 mL
Dropper Bottle (DB807)
Mixing Vial (VL103)
2000 ml size
Vina Green™ Chromogen (BRR807BF) 2 x 4 mL
Vina Green™ Buffer (BRR807CMM) 2 x 1 L
Dropper Bottle (DB807)
Mixing Vial (VL103)
OPRR807A T60 size
Vina Green™ Chromogen (OPRR807CHT60) 1 x 3.5 mL
Vina Green™ Buffer (OPRR807BFT60) 1 x 14.5 mL
DI Water (OPRR6035C1) 4 x 15 mL

Materials and Reagents Required 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*
Pretreatment reagents*
Enzyme digestion*
Avidin-Biotin Blocking Kit*(Labeled Streptavidin Kits Only)
Peroxidase block*
Protein block*
Primary antibody*
Negative control reagents*

Materials and Reagents Required but Not Provided Cont'd:
Detection kits*
Hematoxylin*
Bluing reagent*
Mounting medium*
* Refer to the Biocare Medical website located at http://biocare.net for information regarding catalog numbers and ordering.

Storage and Stability:
Store at 2ºC to 8ºC. 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. The Vina Green working solution is stable for at least 4 hours. If used more than 4 hours after preparation, poor staining may be observed.

Instructions for Use:
1. After application of HRP detection, rinse tissue section in PBS or TBS Wash Buffer.
2. Add 1 drop (32µL) of Vina Green Chromogen to 1mL of Vina Green Buffer and mix well.
3. Apply Vina Green working solution to tissue sections. Incubate for 5-10 minutes at room temperature.
4. After Vina Green staining, wash in water and lightly stain with hematoxylin and blue nuclei with TBS wash buffer for no more than 30 seconds and wash thoroughly in water. Prolonged exposure to TBS/PBS will fade Vina Green reaction product.
5. Oven dry or dehydrate, clear and coverslip with a solvent-based mounting medium.

Technical Notes:
1. Vina Green can be used with Warp Red and DAB for multiplex IHC procedures; however, Vina Green **must** always be used as the last chromogen or after the denaturing step. The denaturing solution (elution step) will degrade Vina Green.
2. Do not exceed incubation times of 30 seconds per washing, bluing and dehydration steps.
3. Aqueous-based mountants should be avoided as Vina Green is soluble in these media.
4. If crystals are observed in buffer, consider filtering with a disposable syringe equipped with a 0.4 or 0.8 µm Swinnex® filter. Appearance of crystals in buffer does not compromise performance of the product.

Staining Protocol Recommendations (ONCORE™ Pro X Automated Slide Staining System):
The following programming and protocol recommendations are to assist the user when staining on 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:
Vina Green: 10 minutes at 37°C, (200uL application volume recommended)

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

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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. Refer to reagent Safety Data Sheet for precautions.
2. 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. (1)
3. Microbial contamination of reagents may result in an increase in nonspecific staining.
4. Incubation times or temperatures other than those specified may give erroneous results. The user must validate any such change.
5. Do not use reagent after the expiration date printed on the vial.

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

Hazard	Code	Hazard Statement
	H225	Highly flammable liquid and vapor.
	H301+ H311+ H331	Toxic if swallowed, in contact with skin or if inhaled.
	H302	Harmful if swallowed.
	H370	Causes damage to organs (central nervous system, optic nerve) (oral).

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

References:
1. Clinical and Laboratory Standards Institute (CLSI). Protection of Laboratory Workers from Occupationally Acquired Infections; Approved Guideline-Fourth Edition (M29-A4) Wayne, PA 2014.

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