

# Enhance ORANGE Buffer Solution



**Catalog No.**  
71-00-07

**Size**  
50 mL

## DESCRIPTION

Enhance ORANGE Buffer Solution is a component of the HistoMark® ORANGE immunohistochemical staining system for the detection of reagents labeled with horseradish peroxidase (HRP). This buffer must be used in place of 0.1 M Tris buffer when diluting KPL Diaminobenzidine-Catechol (DAB-C) Substrate Concentrate. Through enhancement with nickel, the normal light-brown reaction product of DAB is converted to a distinct orange stain.

## CONTENT

Enhance ORANGE Buffer Solution consists of an acetate buffer containing nickel sulfate.

## FORM

Enhance ORANGE Buffer Solution is provided as a 50 mL liquid solution.

## STORAGE/STABILITY

Store tightly capped at 2 – 8°C. Stable for a minimum of one year from date of receipt when stored at 2 - 8°C.

## PREPARATION

Prepare DAB-C Substrate Solution using Enhance ORANGE Buffer Solution as follows:

1. Add 0.5 mL Enhance ORANGE Buffer Solution to 5 mL reagent quality water.
2. Add 100 µL of 25 mg/mL DAB-C Substrate Concentrate (Catalog No. 71-00-13) and 100 µL of 0.5% Peroxide Solution (Catalog No. 71-00-09) to the Enhance ORANGE Buffer Solution and mix well.

The working solution contains 0.5 mg/mL DAB-C Substrate and 0.01% Hydrogen peroxide.

## USE

After tissue sections or other cellular preparations have been reacted with peroxidase labeled antibody and washed, flood sections with the working solution of DAB-C Substrate in Enhance ORANGE Buffer and incubate for 5 - 15 minutes until desired intensity of staining is obtained. Counterstain if desired before mounting section in either aqueous or xylene-based mounting medium.

## IMMUNOASSAY KIT REAGENTS

Enhance ORANGE Buffer Solution is a component of the HistoMark® ORANGE kit for Horseradish Peroxidase Substrate System.

## RELATED PRODUCTS

HistoMark® RED Phosphatase System	Cat. No.55-69-00
HistoMark® BLUE Phosphatase System	Cat. No.55-70-00
HistoMark® BLACK Peroxidase System	Cat. No.54-75-00
HistoMark® ORANGE Peroxidase System	Cat. No.54-74-00

See KPL's catalog for a complete list of antibodies, substrates and complete systems for microwell ELISA, membrane blotting and immunohistochemical applications.

## PRODUCT SAFETY AND HANDLING

See MSDS (Material Safety Data Sheet) for this product.

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