

PowerVision™ DAB Substrate System

| Cat. No. | Alternative Cat No. | DAB Substrate Solution | DAB Chromogen Solution |
|----------|---------------------|------------------------|------------------------|
| PV6126 | BS03-60 | 60 mL, 30x concentrate | 60 mL, 30x concentrate |

I. INTENDED USE

For Research Use Only

PowerVision DAB Substrate Systems are intended for the chromogenic detection of targeted antigens that have been reacted to a user-supplied primary antibody and a peroxidase detection system. It is recommended that the reagents are not substituted across DAB substrate systems or lot numbers.

II. INTRODUCTION

PowerVision DAB Substrate Systems provide a sensitive peroxidase substrate for immunohistochemistry (IHC). It is to be applied after primary antibody and secondary detection system to reveal locations of target antigens bound by primary antibody and detected by secondary peroxidase detection systems. It offers the advantages of high sensitivity and consistency.

III. HANDLING, STORAGE AND SHELF LIFE

Storage Conditions:

All reagents are to be stored at 2-8°C. Void after expiration date as specified on reagent label.

Precautions:

DAB Chromogen Solution contains DAB 3,3'-diaminobenzidine, a hazardous component. 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. The user is advised to consult the MSDS for further information.

IV. REAGENTS AND MATERIALS NEEDED BUT NOT SUPPLIED

Primary antibodies and detection systems

V. Warnings and Precautions

PowerVision DAB Chromogen Solution

Contains Ethylene Glycol (<90%)
and 3,3' Diaminobenzidine
Tetrahydrochloride Hydrate (<10%).

GHS07: Exclamation mark

GHS08: Health hazard

Signal words: Danger

H302: Harmful if swallowed.

H341: Suspected of causing
genetic defects.

H350: May cause cancer.

P201: Obtain special instructions before use.

P202: Do not handle until all safety
precautions have been read and understood.
P264: Wash hands thoroughly after handling.
P270: Do not eat, drink or smoke when using
this product.

P281: Use personal protective equipment as
required.

P301 + P312: IF SWALLOWED: Call a
POISON CENTRE or doctor if you feel unwell.
P330: Rinse mouth.

P308 + P313: IF exposed or concerned: Get
medical advice/attention.

P501: Dispose of contents/container to
hazardous or special waste collection point.

Powervision DAB Substrate Solution (60mL)

Contains Acetic Acid (<30%).

GHS07: Exclamation mark.

Signal words: Warning.

H315: Causes skin irritation.

H319: Causes serious eye irritation.

P264: Wash hands thoroughly after handling.

P280: Wear protective gloves/protective clothing/eye protection/face protection.

P302 + P352: IF ON SKIN: Wash with plenty of soap and water.

P332 + P313: If skin irritation occurs: Get medical advice/attention.

P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing.

P337 + P313: If eye irritation persists: Get medical advice/attention.

P362: Take off contaminated clothing and wash before reuse.

VI. STAINING PROCEDURES

Consult primary antibody and detection system datasheets for procedures previous to the application of substrate / chromogen. DAB precipitates are insoluble in organic solvent, therefore tissue sections can be cleared with organic solvent after staining.

- 1) Dilute one drop (33µl) DAB Substrate Solution and one drop (33µl) DAB Chromogen Solution in 0.93 mL deionized water
- 2) Apply 100µl or sufficient solution to cover tissue sections
- 3) Incubate at room temperature for 2 - 5 minutes
- 4) Rinse with deionized or tap water

VII. LIMITATIONS

Correct treatment of tissues prior to fixation and embedding is important for obtaining optimal results. Inconsistent results may be due to variation in fixation, embedding, pre-treatment and primary antibody reactivities, as well as from inherent variations in tissue. Leica Biosystems warrants that the materials sold meet our performance specifications until the expiration, if stored as recommended. No other warranties or guarantees, expressed or implied, are provided, including warranties for merchantability or fitness for a particular purpose.