

## DAB Chromogen/Substrate Kit (Liquid Format)

<b>Catalog No.:</b>	K 007
<b>Intended Use:</b>	As a substrate/chromogen in conjunction with peroxidase-based immunostaining systems.
<b>Introduction:</b>	DAB is a widely used chromogen for immunoperoxidase staining and immunoblotting. It has been well accepted amongst the pathologist because of its superior performance as compared to Amino Ethylcarbazole (AEC). DAB is much more sensitive and gives cleaner background as opposed to AEC. Specimens stained in DAB can be dehydrated in ethanol and cleared in Xylene and can be mounted for permanent record keeping. However, because of its carcinogenic nature, some labs avoid using DAB powder. To resolve this problem, we have designed DAB in liquid format to minimize the exposure of DAB to lab personnel.
<b>Principle:</b>	Peroxidase reacts with 3% Hydrogen Peroxide Substrate to degrade it, which in turn reacts with DAB to precipitate it at the positive sites giving dark brown color.
<b>Components/Format:</b>	i) 10mL DAB Chromogen, stable concentrated amber-colored solution. ii) 200mL DAB Substrate Buffer, stable clear solution. iii) One empty mixing vial.
<b>Storage of Kit:</b>	Store at 2-8°C. Each component is stable for 18 months from the date of manufacture. Do not use beyond the expiration date stated on the label.
<b>Working Solution:</b>	Note: The working chromogen solution is stable for 6 hours. Any solution not used after this period should be properly discarded.  Transfer 1mL of DAB Substrate Buffer in the mixing vial. Add 50µL (two drops) of DAB Chromogen. Replace the tip and mix.
<b>Procedure:</b>	i) Once tissue sections have been incubated with peroxidase, wash them thoroughly with buffer. ii) Wipe the glass to remove excess of buffer and add enough drops of the working DAB Substrate/Chromogen solution to cover the tissue sections. iii) Incubate for 5-15 minutes at room temperature. For the best results, look under the microscope for the signal development. Once desired signal to noise ratio is achieved, stop the reaction by washing slides in wash buffer.
<b>Precautions:</b>	DAB has been classified as suspected carcinogen and can cause skin irritation upon contact. Avoid contact with clothes and exposed skin. If accidentally contacted, flush with tap water immediately. Follow instructions provided by your local authorities for disposal.

### IVD: For In Vitro Diagnostic Use

DBS will not be held responsible for patent infringement or other violation that may occur with the use of our product.

**DBS**

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