

## DAB-Ni Substrate Kit (20x) for Immunohistochemistry

(Nickel Enhanced 3,3'-Diaminobenzidine Tetrahydrochloride Substrate kit for Horseradish Peroxidase)

Storage: 4-8°C
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Catalog No.:  C10-12 12mL 2400 slides\*  
 \* if use 100µl per slide

### Intended Use:

DAB (3,3'-Diaminobenzidine ) is one of the most commonly used precipitating substrates for peroxidase. Our DAB-Ni substrate Kit is a nickel chloride enhanced DAB system with increased sensitivity and contrast compared to standard DAB. DAB-Ni will develop a black colored deposit upon reacting with peroxidase. The DAB-Ni Substrate Kit requires 5 minutes incubation on slides in an enclosed chamber at room temperature. The color development may be carefully monitored under a microscope. After the appropriate color is observed, gently rinse the slides under tap water for 1-2 minutes to remove excess DAB-Ni substrate. The specimen may be counterstained, dehydrated and permanently mounted (O-Mount, catalog # E02-18) before cover-slipping. All four components in the DAB-Ni kit are provided in concentrated form, which gives laboratories the advantage of easy storage and less shipping cost.

### Kit Components:

Component No.	Content	12mL Kit
<b>Reagent 1</b>	DAB Substrate (20x)	12mL
<b>Reagent 2</b>	DAB Chromogen (20x)	12mL
<b>Reagent 3</b>	Hydrogen peroxide (20x)	12mL
<b>Reagent 4</b>	Nickel Solution (7x)	18mLx2

### Recommended Protocol:

1. Prepare 1mL of distilled water. Add 1 drop of DAB Substrate (**Reagent 1**) into 1mL of distilled water. Mix well.
2. Add 1 drop of DAB Chromogen (**Reagent 2**) and 1 drop of concentrated Hydrogen Peroxide (**Reagent 3**) to the diluted Reagent. Mix well.
3. Add 3 drops of Nickel Solution (**Reagent 4**) to the mixture. Mix well.
4. Add about 100µl (2 drops) of the pre-diluted DAB-Ni mixture to each slide and incubate in an enclosed chamber at room temperature for about 5 minutes. When appropriate color is developed, rinse under tap water gently for about 1-2 minutes.
5. Keep away from light during operation and use the prepared DAB-Ni mixture within 5 hours.

### Related Products:

Product	Catalog No.	Size
AEC kit (20x concentrate)	C01-12	12mL
DAB Kit (20x, 3-component DAB)	C02-12 / C02-100	12mL / 100mL
DAB+ Kit (2-component DAB)	C09-12 / C09-100	12mL +240mL / 100mL + 2 L
BCIP/NBT Kit (RTU)	C05-100 / C05-18	100mL / 18mL
Fast Red Kit (tablets and ready-to-use substrate)	C03-60	12 Tab + 60mL
AP-Red+ Kit (40x concentrate)	C04-8	8mL +8mL +16mL
GB-Mount (Aqueous)	E01-18	18mL
O-Mount (Organic)	E02-18	18mL
Simpo-Mount (Aqueous)	E03-100 / E03-18	100mL / 18mL
ISH Mount (Aqueous) for in situ hybridization	E21-100	100mL
Fluorescent Mounting Medium	E18-100 / E18-18	100mL / 18mL
Fluorescent Mounting Medium with DAPI	E19-100 / E19-18	100mL / 18mL
Fluorescent Mounting Medium with PI	E20-100 / E20-18	100mL / 18mL

### Precautions:

DAB nickel chloride may be carcinogenic. Please wear gloves and take other necessary precautions, such as eye protection, lab coat, and good laboratory procedures. Dispose in accordance with local regulations.

### Remarks:

For research use only.