

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

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

Storage: 4-8°C	Catalog No.: C10-12	12ml	<input type="checkbox"/>
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### 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:

Product	Catalog No.	Reagent 1 DAB substrate (20x)	Reagent 2 DAB Chromogen (20x)	Reagent 3 Hydrogen peroxide (20x)	Reagent 4 Nickel Solution (10x)
DAB-Ni kit (2400 slides)*	C10-12	12ml	12ml	12ml	24ml

\*Using 100µl per slide

### 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 2 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.