

Liquid AEC Substrate Kit (20X) for Immunohistochemistry

(Aminoethyl Carbazole Substrate kit for Horseradish Peroxidase)

Storage: 2-8°C

Catalog No.: C01-12 12ml

Intended Use:

The method in most common use in immunohistostaining is the using hydrogen peroxide as the substrate and Aminoethyl Carbazole (AEC) as the chromogen. AEC substrate will develop a red colored deposit upon reacting with peroxidase. AEC incubation on slides is about 5-10 minutes in an enclosed chamber at room temperature. The color development may be carefully monitored under a microscope. Since AEC is alcohol soluble the specimen should not be dehydrated after AEC staining. Specimen may be mounted with aqueous mounting medium (Simpo-Mount, Catalog # E03-18 or E03-100 or GB mount, Catalog #E01-18). AEC Chromogen (Reagent 2) is provided double volume so that customers may choose to use double strength of AEC chromogen to obtain higher sensitivity and contrast.

Kit Components:

Product	Catalog No.	Reagent 1 AEC Substrate Buffer (20X)	Reagent 2 AEC Chromogen (20X)	Reagent 3 Hydrogen peroxide (20X)
AEC kit 12 ml (2000 slides)	C01-12	12 ml	12 ml x 2	12 ml

Recommended Protocol:

1. Prepare 1ml of distilled water. Adding 1 drop of AEC buffer (Reagent 1) in 1ml of distilled water. Mix well.
2. Add 1 drop or 2 drops (double strength, for higher contrast and sensitivity) of AEC Chromogen (Reagent 2) and 1 drop of Concentrated Hydrogen Peroxide (Reagent 3) to the diluted Reagent 1. Mix well.
3. Add 2 drops (about 100µl) of the fresh made AEC mixture on to the slides and incubate in an enclosed chamber at room temperature about 5-10 minutes. When appropriate color is developed, rinse under tap water gently for about 1-2 minutes.
4. Keep away from light during operation and use the prepared AEC solution within 1 hour.
5. **AEC is alcohol soluble. DO NOT dehydrate the slides after color development.**

Related Products:

Product	Catalog No.	Size
DAB+ Kit (2-component)	C09-12 / C09-100	12ml +240ml / 100ml + 2L
DAB Kit (20x Concentrate)	C02-100 / C02-12	100ml / 12ml
Fast Red Kit (tablets and ready-to-use substrate)	C03-60	12 Tab + 60ml
AP-Red+ Kit (40x concentrate)	C04-8	8ml
BCIP/NBT Kit (RTU)	C05-100 / C05-18	100ml / 18ml
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:

Appropriate Laboratory personal protective equipment must be worn when handling reagents.

Remarks:

For research use only.