

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 # E03-15 or E03-100 or GB mount, Catalog #E01-15). All three components in AEC kit are provided in concentrated form, which gives laboratories the advantage of easy storage and less shipping cost. 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 mlx2	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 100ul) 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 dehydrated.**

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 / C05-15	100ml / 15ml
GB-Mount (Aqueous)	E01-15	15ml
O-Mount (Organic)	E02-15	15ml
Simpo-Mount (Aqueous)	E03-100 / E03-15	100ml / 15ml
ISH Mount (Aqueous, for in situ hybridization)	E21-100	100ml
Fluorescent Mounting Medium	E18-100 / E18-15	100ml / 15ml
Fluorescent Mounting Medium with DAPI	E19-100 / E19-15	100ml / 15ml
Fluorescent Mounting Medium with PI	E20-100 / E20-15	100ml / 15ml

Precautions:

Gloves and laboratory cloth must be worn when handling concentrated reagent.

Remarks:

For research use only.