

## AEC concentrated Kit (20X) for 2400 slides

(Aminoethyl Carbazole Substrate kit for Horseradish Peroxidase)

Cat # NB-23-00140

Size: 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 (NeoBio Mount Universal, Catalog # NB-23-00157-2 or NB-23-00157-1 or NeoBio Mount AQ, Catalog #NB-23-00155-3). 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

|           |                            |           |
|-----------|----------------------------|-----------|
| Reagent 1 | AEC Substrate Buffer (20X) | 12ml      |
| Reagent 2 | AEC Chromogen (20X)        | 12ml (2x) |
| Reagent 3 | Hydrogen peroxide (20X)    | 12ml      |

### 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.**

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## Precaution

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

## Storage

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Store at 2-8°C. Do not freeze.

## Related Products

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| Product                          | Catalog No.        | Size                     |
|----------------------------------|--------------------|--------------------------|
| DAB+ Kit (2-component)           | NB-23-00148-1 / -2 | 12ml +240ml / 100ml + 2L |
| DAB Kit (20x Concentrate)        | NB-23-00141-1 / -2 | 100ml / 12ml             |
| Fast Red Kit                     | NB-23-00142        | 60ml                     |
| AP-Red+ Kit (40x concentrate)    | NB-23-00143        | 8ml                      |
| BCIP/NBT Kit (RTU)               | NB-23-00144-1 / -2 | 100ml / 18ml             |
| NeoBio Mount AQ                  | NB-23-00155-3      | 18ml                     |
| NeoBio Mount Perm                | NB-23-00156        | 18ml                     |
| NeoBio Mount Universal (Aqueous) | NB-23-00157-1 / -2 | 100ml / 18ml             |
| NeoBio Mount ISH                 | NB-23-00161-1      | 100ml                    |
| NeoBio Mount Fluo                | NB-23-00158-1 / -2 | 100ml / 18ml             |
| NeoBio Mount Fluo with DAPI      | NB-23-00159-1 / -2 | 100ml / 18ml             |
| NeoBio Mount Fluo with PI        | NB-23-00160-1 / -2 | 100ml / 18ml             |

*For reference only  
For Research Use Only. Not for Diagnostic or Therapeutic Use.*