

**AEC BUFFER (10x CONCENTRATE)  
(3-AMINO-9-ETHYLCARBAZOLE)****CATALOG NUMBER:** ES013-500mL**LOT NUMBER:****QUANTITY:** 500 mL**DESCRIPTION/USE:** 3-Amino-9-ethylcarbazole (AEC) may be used as a substitute for DAB in horseradish peroxidase (HRP) based immunoassays. Although not as sensitive as DAB, the red deposit formed at the sites of AEC oxidation make this substrate useful where double labeling is desired. Although the oxidation product is alcohol and xylene soluble, excellent morphology is observed when using aqueous based mounting media. CHEMICON provides AEC as a liquid concentrate (50x) (Catalog Number ES012) along with the hydrogen peroxide containing buffer (10x).**REAGENTS PROVIDED:** AEC Buffer Solution: A 0.5 Mol L<sup>-1</sup> acetate buffer containing 0.088 Mol L<sup>-1</sup> hydrogen peroxide, and proprietary stabilizers. When diluted according to instructions the final pH will be 5.0.**STORAGE:** Store at 2° - 8°.

*For research use only; not for use as a diagnostic.*

Unless otherwise stated in our catalog or other company documentation accompanying the product(s), our products are intended for research use only and are not to be used for any other purpose, which includes but is not limited to, unauthorized commercial uses, in vitro diagnostic uses, ex vivo or in vivo therapeutic uses or any type of consumption or application to humans or animals.

©2002 - 2007: Millipore Corporation. All rights reserved. No part of these works may be reproduced in any form without permission in writing

USA & Canada • Phone: +1(800) 437-7500 • Fax: +1 (951) 676-9209 • Europe +44 (0) 23 8026 2233  
Australia +61 3 9839 2000  
www.millipore.com

## PROCEDURE FOR AEC (ES013)

- 1) To 1 part of Acetate Buffer Solution Concentrate (ES013) add 9 parts of reagent quality water and mix thoroughly.
- 2) To 50 parts of solution from Step 1, add 1 part of 3-amino-9-ethyl carbazole concentrate (Catalog Number ES012) and mix thoroughly.
- 3) Completely cover tissue sections with this solution and incubate 10-30 minutes at room temperature. The same conditions apply for blotting techniques.  
NOTE: Room temperature = 23-28°C.
- 4) After reaction is complete, wash tissue sections or membranes thoroughly in reagent quality water.
- 5) If tissue sections require counterstain, use either Mayer's Hematoxylin followed by blueing in alkaline tap water or a 0.5% aqueous methyl green solution.
- 6) Mount tissue sections in a water based mounting medium. Air dry blots and store protected from light.

*For research use only; not for use as a diagnostic.*

Unless otherwise stated in our catalog or other company documentation accompanying the product(s), our products are intended for research use only and are not to be used for any other purpose, which includes but is not limited to, unauthorized commercial uses, in vitro diagnostic uses, ex vivo or in vivo therapeutic uses or any type of consumption or application to humans or animals.

©2002 - 2007: Millipore Corporation. All rights reserved. No part of these works may be reproduced in any form without permission in writing

---

USA & Canada • Phone: +1(800) 437-7500 • Fax: +1 (951) 676-9209 • Europe +44 (0) 23 8026 2233  
Australia +61 3 9839 2000  
www.millipore.com