

## Data sheet AEC coloring system

<b>Cat. No.</b>	<b>CT392</b>
<b>Format</b>	10-plate
<b>Specificity</b>	Provides the substrate for the ELISPOT assay based on enzymatic staining and performed on PVDF membrane-bottomed plates. The AEC coloring system consists of two items: a concentrated AEC (3-amino-9-ethylcarbazole) stock solution and a concentrated Substrate buffer.
<b>Application</b>	For 1 ELISPOT plate: mix 1 ml Substrate buffer (10x) thoroughly with 4.2 ml 70% ethanol and 4.8 ml demineralized water to reach a final concentration of substrate buffer (1x) in 30% ethanol. Add 660 µl AEC stock solution* (toxic: use a fume hood) and mix thoroughly. After mixing, the solution should be clear. This AEC solution should be used within 30 min after preparation. * Do not bring AEC stock solution in contact with polystyrene pipettes and vials.  Apply 100 µl/well. Cover the plate and incubate 30 min at room temperature (RT: 20-26 °C) protected from light. Stop the reaction by emptying the plate and thoroughly rinse both sides of the PVDF membrane with demineralized water. Air-dry the plate at RT (protected from light). To prevent bleaching of the red spots, store the plate at a dry place protected from light.  The product should be used in combination with: <ul style="list-style-type: none"> <li>• Streptavidin-HRP conjugate (U-CyTech cat. no. CT353)</li> <li>• 96-well PVDF membrane-bottomed plates (Millipore cat. no. MSIP S4510).</li> </ul>
<b>Contents</b>	7 ml AEC stock solution 10 ml Substrate buffer
<b>Sterility</b>	-
<b>Packaging</b>	8 ml opaque amber polypropylene bottle with amber closure (AEC stock solution) 15 ml opaque amber polypropylene bottle with blue closure (Substrate buffer)
<b>Storage</b>	AEC stock solution: The AEC stock solution should be stored at ≤-20 °C and is stable until the expiry date (indicated on the vial)*. It is recommended to divide the solution into small aliquots for single use in polypropylene vials. These aliquots should be stored protected from light at ≤-20 °C (stable for at least one year). * Avoid exposure to light and air: tightly close the vial after use. Avoid contact with polystyrene pipettes and vials.  Substrate buffer: The substrate buffer is stable until the expiry date (indicated on the vial) when stored at 4 °C. Tightly close the vial after use.
<b>General</b>	Do not bring AEC stock solution in contact with polystyrene pipettes, vials, etc.  AEC stock solution: ochre solution. Substrate buffer: colorless solution.
<b>Safety</b>	AEC coloring system is for professional use only. Follow general safety rules for laboratories.
<b>AEC stock solution</b>	<b>Warning:</b> AEC (3-Amino-9-ethylcarbazole) stock solution is classified as hazardous according to Regulation (EC) no. 1272/2008 and its amendments.  Flammable liquid (Category 3), H226 Acute toxicity, Oral (Category 4), H302 Carcinogenicity (Category 1B), H350 Skin irritation (Category 2), H315 Eye irritation (Category 2), H319 Specific target organ toxicity - single exposure (Category 3), H335



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**Hazard statements:**

H226: Flammable liquid and vapor.  
 H302: Harmful if swallowed.  
 H315: Causes skin irritation.  
 H319: Causes serious eye irritation.  
 H335: May cause respiratory irritation.  
 H350: May cause cancer

**Precaution statements:**

P201: Obtain special instructions before use.  
 P210: Keep away from heat/sparks/open flames/hot surfaces. - No smoking.  
 P261: Avoid breathing dust/fume/gas/mist/vapor/sprays.  
 P280: Wear protective gloves/ protective clothing/eye protection/face protection.  
 P301 + P312 + P330: IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. Rinse mouth.  
 P332 + P313: If skin irritation occurs: Get medical advice/attention.  
 P305 + P351 + P338: IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.  
 P308 + P313: IF exposed or concerned: Get medical advice/attention.

Product consists of 1% (w/v) 3-amino-9-ethylcarbazole in N,N-diethylformamide. The AEC stock solution should be handled in a chemical fume hood. Use only non-sparking tools and keep away from open flames, hot surfaces and electrostatic discharges. Avoid contact with skin, eyes and clothing. Avoid inhalation of vapor or mist. Do not let product enter drains.

Substrate buffer The substrate buffer is not classified as hazardous according to Regulation (EC) no. 1272/2008 and its amendments.

First aid In case of contact with skin, remove contaminated clothing/shoes and wash contaminated area with water (or shower). Upon swallowing or contact with eyes, rinse mouth (if person is conscious) or eyes with plenty of water for several minutes. Assure adequate flushing by separating the eyelids. After inhalation, provide fresh air.

In case of skin or eye irritation, if breathing becomes difficult or feeling unwell or concerned, consult physician and show SDS.

Upon swallowing AEC stock solution: Do NOT induce vomiting. Consult physician immediately.

Consult the safety data sheet (SDS) for further information regarding hazards and safe handling practices. Please find the Safety Data Sheet on [www.ucytech.com/products/additional](http://www.ucytech.com/products/additional).

