

Technical Data Sheet

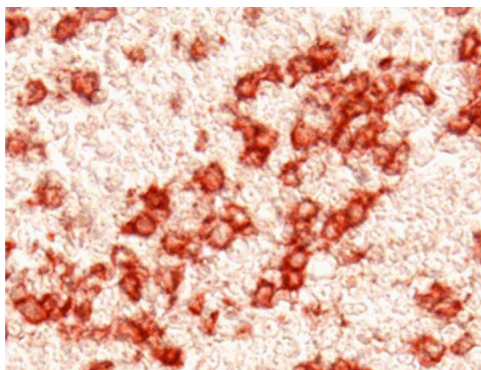
AEC Substrate Kit

Product Information

Material Number:	551015
Size:	500 tests
Component:	51-7604KC
Description:	AEC Chromogen (component of AEC substrate Kit)
Size:	1.5 ml (1 ea)
Component:	51-7603KC
Description:	AEC buffer (component of AEC substrate Kit)
Size:	50 ml (1 ea)

Description

3-Amino-9-Ethylcarbazole (AEC) is a substrate for peroxidase and is a widely used chromogen for immunohistochemical staining and immunoblotting. In the presence of peroxidase enzyme, AEC produces a red end product that is soluble in alcohol and therefore must be used with an aqueous counterstain and mounting media.



Immunohistochemical staining with AEC substrate.
Formalin-fixed paraffin sections of human tonsil were reacted with the anti-human CD45RO antibody and the color developed using Streptavidin-Horse Radish peroxidase and AEC substrate. Counterstain used is contrast green. Magnification 40x.

Preparation and Storage

Store undiluted at 4°C and protected from prolonged exposure to light. Do not freeze.

AEC substrate is comprised of two components: the AEC buffer and AEC chromogen.

Application Notes

Application

Immunohistochemistry	Routinely Tested
----------------------	------------------

Recommended Assay Procedure:

Immunohistochemistry: AEC substrate is provided as two components - the AEC buffer and AEC chromogen. AEC buffer is a solution of Sodium Acetate, Dimethylsulfoxide, Methanol, and Urea Peroxide. AEC chromogen is a solution of 3-Amino-9-Ethylcarbazole and N, N, Dimethylformamide. Just before staining add one drop of AEC chromogen for every 1 ml of AEC buffer. Apply the AEC substrate reagent to the sections after incubation with horseradish peroxidase and washing is complete. Incubate sections with AEC reagent for 5-20 minutes or until the desired color intensity is obtained. Use the AEC substrate reagent within 20 minutes of mixing. Detailed protocols for immunohistochemical staining of frozen and paraffin sections are enclosed.

Note: AEC is a suspected carcinogen. Wear gloves for handling and dispose the product according to approved regulations.

Warnings and Precautions

AEC Chromogen substrate kit contains Dimethylsulfoxide, Methanol, Urea Peroxide, 3-Amino-9-Ethylcarbazole, and N, N, Dimethylformamide. and they are considered harmful. When using do not eat or drink. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

BD Biosciences

bdbiosciences.com

United States	Canada	Europe	Japan	Asia Pacific	Latin America/Caribbean
877.232.8995	800.979.9408	32.53.720.550	0120.8555.90	65.6861.0633	55.11.5185.9995

For country contact information, visit bdbiosciences.com/contact

Conditions: The information disclosed herein is not to be construed as a recommendation to use the above product in violation of any patents. BD Biosciences will not be held responsible for patent infringement or other violations that may occur with the use of our products. Purchase does not include or carry any right to resell or transfer this product either as a stand-alone product or as a component of another product. Any use of this product other than the permitted use without the express written authorization of Becton, Dickinson and Company is strictly prohibited.

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Not for resale.

Unless otherwise noted, BD, BD Logo and all other trademarks are property of Becton, Dickinson and Company. © 2011 BD



For 51-7603KC:

Risk phrases:

Dimethylsulfoxide freely penetrates the skin and may carry dissolved chemicals into the body.

11 *Highly flammable.*

20/21/22 *Harmful by inhalation, in contact with skin and if swallowed.*

36/37/38 *Irritating to eyes, respiratory system and skin.*

68/20/21/22 *Harmful: possible risk of irreversible effects through inhalation, in contact with skin and if swallowed.*

Safety phrases:

7/9 *Keep container tightly closed and in a well-ventilated place.*

16 *Keep away from sources of ignition - No smoking.*

23 *Do not breathe gas/fumes/vapour/spray.*

25 *Avoid contact with eyes.*

36/37 *Wear suitable protective clothing and gloves.*

60 *This material and its container must be disposed of as hazardous waste.*

For 51-7604KC:

Risk phrases:

61 *May cause harm to the unborn child*

20/21/22 *Also harmful by inhalation, in contact with skin and if swallowed.*

36/37/38 *Irritating to eyes, respiratory system and skin.*

Safety phrases:

53 *Avoid exposure - obtain special instructions before use.*

7/9 *Keep container tightly closed and in a well-ventilated place.*

20 *When using do not eat or drink.*

36/37/39 *Wear suitable protective clothing, gloves and eye/face protection.*

45 *In case of accident or if you feel unwell, seek medical advice immediately.*

60 *This material and its container must be disposed of as hazardous waste.*

Product Notices

1. Please refer to www.bdbiosciences.com/pharming/en/protocols for technical protocols.

BD Biosciences

bdbiosciences.com

United States	Canada	Europe	Japan	Asia Pacific	Latin America/Caribbean
877.232.8995	800.979.9408	32.53.720.550	0120.8555.90	65.6861.0633	55.11.5185.9995

For country contact information, visit bdbiosciences.com/contact

Conditions: The information disclosed herein is not to be construed as a recommendation to use the above product in violation of any patents. BD Biosciences will not be held responsible for patent infringement or other violations that may occur with the use of our products. Purchase does not include or carry any right to resell or transfer this product either as a stand-alone product or as a component of another product. Any use of this product other than the permitted use without the express written authorization of Becton, Dickinson and Company is strictly prohibited.

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Not for resale.

Unless otherwise noted, BD, BD Logo and all other trademarks are property of Becton, Dickinson and Company. © 2011 BD

