Emerald: Antibody Diluent

For In Vitro Diagnostic Use (IVD)
Instructions for use

INTENDED USE

Emerald: Antibody Diluent is intended for use in the preparation of primary and secondary antibody dilutions used in immunohistochemistry (IHC) staining protocols.

SUMMARY AND EXPLANATION

Antibody diluent is a buffered solution for the dilution of both polyclonal and monoclonal antibodies for IHC. It is designed to minimize non-specific reactions and encourage specific antigen-antibody binding. Emerald: Antibody Diluent can also be used to stabilize diluted antibodies when stored at 2-8°C.

PRINCIPLES AND PROCEDURES

When preparing antibody dilutions, add antibody to diluent and not diluent to antibody. Addition of the antibody to the mixing vessel before the diluent can cause contamination of the diluent if multiple dispenses are necessary.

MATERIALS AND METHODS

Emerald: Antibody Diluent contains phosphate buffered saline, pH 7.3-7.7, with 1% BSA and <0.1% sodium azide.

Reagents Supplied As:

Reagent Cat. No.	Contents	Vol. (ml)
936B-03	Emerald: Antibody Diluent	50.0 mL
936B-08	Emerald: Antibody Diluent	250.0 mL
936B-09	Emerald: Antibody Diluent	1000.0 mL

Materials and Reagents Needed But Not Provided

1. Primary antibody(ies)
2. TBS or PBS wash buffer*
3. Volumetric flask/graduated cylinder
4. Microscope slides, positively charged
5. Drying oven
6. Positive and negative controls
7. Clearing agent (xylene, Clearene, etc.)
8. Ethanol or reagent alcohol
9. Slide rack*
10. Staining dishes*
11. Pressure cooker*
12. Pretreatment reagents*
13. Proteolytic enzyme
14. Peroxidase block
15. Negative control reagents*
16. Detection kits*
17. Chromogen*
18. Hematoxylin*
19. Mounting medium

**See Cell Marque Catalog for product numbers. Some of the reagents listed are based on specific applications and detection system used.*

Storage and Stability
Store at 2-8°C, up to 36 months from the date of manufacture (see product label for expiration date).

Reagent Preparation
This product is a ready to use reagent.

Use to dilute antibodies at desired dilution based on manufacturer's recommendation or laboratory's validated protocol.

INTERPRETATION OF RESULTS

The clinical interpretation of any staining, or the absence of staining, must be complemented by morphological studies and evaluation of proper controls. Evaluation must be made by a qualified pathologist within the context of the patient's clinical history and other diagnostic tests.

WARNINGS AND PRECAUTIONS

1. This product is for *in vitro* diagnostic use by professionals only.
2. This is a ready to use reagent. Do not dilute prior to use.
3. Do not use after expiration date printed on product labels. The user must validate any storage conditions other than those specified in the package insert.
4. Bring all reagents, slides, and specimens to room temperature (18-24° C) prior to use.
5. Cross contamination of reagents or samples may give false results.
6. Avoid microbial contamination of reagents, as this could produce incorrect results.
7. Do not smoke, eat, or drink in areas where specimens or reagents are handled.
8. Avoid contact of reagents with eyes and mucous membranes. If reagents come in contact with sensitive areas, wash with copious amounts of water.
9. Avoid splashing or generation of aerosols at all times.
10. When used according to instructions, this product is not classified as a hazardous substance. The preservative in the reagent is less than 0.1% sodium azide and does not meet the OSHA (USA) criteria for a hazardous substance at the stated concentration. See SDS. Sodium azide may react with lead or copper plumbing and form explosive metal azide salts. When disposing of reagents, flush with ample volumes of tap water to prevent potential residues in plumbing. Sodium azide is a poison and may be toxic if ingested.
11. Diluent may contain bovine serum albumin. The products containing fetal bovine serum and bovine serum albumin are purchased from commercial suppliers. Certificates of Origin for the

animal source used in these products are on file at Cell Marque Corp. The certificates support that the bovine sources are from countries with negligible BSE risk and state sources from USA and Canada.

12. As with any product derived from biological sources, proper handling procedures should be used.
13. Reusable glassware must be washed and thoroughly rinsed free of detergents prior to use. All glassware must be clean and dry before use.
14. Never pipette by mouth and avoid contact of reagents and specimens with skin and mucous membranes. If contact occurs, wash with a germicidal soap and copious amounts of water.
15. Refer to product SDS.

LIMITATIONS

Immunohistochemistry is a multi-step process that is dependent on the pre-analytical variables involved in specimen processing prior to IHC staining. It is the responsibility of the end user to determine optimal conditions.

TROUBLESHOOTING

For further help, feel free to contact Cell Marque's Technical Support at +1-800-665-7284.

REFERENCES

1. NCCLS Quality Assurance for Immunocytochemistry approved guideline, December 1999 MM4-A Vol. 19 No. 26 for more information on tissue controls.

DISCLAIMERS

www.cellmarque.com

EC REP EMERGO EUROPE
Prinsessegracht 20, 2514 AP, The Hague, The Netherlands

CE

CM Template #1.2