

Azide-Free ImmunoDiluent & Block

Advanced Diluting, Stabilization and Storage Solution for
ANTIBODIES, ENZYMES, POLYMERS, FLUOROCHROMES and PROTEINS

Technical Data Sheet

Reagent Category

Azide-Free diluting solution for Enzymes,
Proteins, Fluorochromes and Antibodies

Specific Reagents Supplied

- 60 ml of Azide-Free ImmunoDiluent
- 35 ml of Azide-Free ImmunoDiluent
- 125 ml of Azide-Free ImmunoDiluent

PRODUCT NUMBER: NB365-60

PRODUCT NUMBER: NB365-35

PRODUCT NUMBER: NB365-125

INTRODUCTION

Enzymes, Antibodies, polymers (antibody-enzyme conjugates), proteins and fluorochromes require dilution and storage in a solution that will preserve them from braking down and inactivation. Traditionally, enzyme and antibody-diluting buffers only consist of a buffered saline and some carrier proteins. This formulation is not adequate for preservation and long-term storage of enzymes, antibodies proteins and antibodies coupled to enzymes and fluorochromes that used in IHC and immunofluorescence (IF) and Flow assays.

PRODUCT DESCRIPTION

Azide-free ImmunoDiluent™ is an advanced diluting and storage solution applicable to dilution and long term storage of all Antibodies, Enzymes, Proteins, Polymers and Fluorochromes conjugates. **Azide-free ImmunoDiluent** is formulated for use in immunoassays where antibodies, enzymes, and proteins are sensitive to sodium azide. **Azide-free ImmunoDiluent** can be specifically useful in IHC staining with polymers where antibodies are directly conjugated to peroxidase (HRP) enzyme which is inactivated with sodium azide. **Azide-free ImmunoDiluent** is also used in Immunofluorescence staining (IF assays) where antibodies or streptavidin are coupled to fluorochromes. All enzymes can also be stored in Azide-Free ImmunoDiluent for dilution and long-term storage.

Azide-free ImmunoDiluent™ is formulated to preserve and stabilize enzymes, proteins, fluorochromes polymers and antibodies and to also block non-specific binding sites for background reduction in immunoassays. **Azide-free ImmunoDiluent** also facilitates higher degree of antigen and antibody binding and therefore allowing higher dilution of enzymes, polymers and antibodies to be employed for immunoassays.

Azide-free ImmunoDiluent™ is also formulated for long-term storage of antibodies, enzymes and proteins. **Enzymes and Antibodies diluted and stored in Azide-free ImmunoDiluent remain stable in refrigerator (2-8°C) for at least 4 years from the date of dilution. This minimizes the need for aliquoting and freezing enzymes and antibodies at -20°C and -70°C. When antibodies or enzymes are intended for storage beyond 4 years, aliquoting in Innovex ImmunoDiluent and freezing at -20°C is recommended.**

Azide-free ImmunoDiluent™ also prevents drying of tissues and cell smears during long incubation period of 2 hours to overnight. Overnight incubation is often employed for some primary antibodies in IHC and IF staining procedures. **Diluting antibodies in Azide-free ImmunoDiluent eliminates the set up and use of a humidified chamber for antibodies requiring over 2 hours of incubation time. Antibodies remain moist and fully active on the tissue or cells for up to 36 hours.**

APPLICATION / INTENDED USE

This reagent is intended for dilution and storage of enzymes, antibodies, proteins, polymers, Antibodies-coupled to enzymes and enzymes coupled to avidin or streptavidin.

PRODUCT FORMAT

Working solution, **no** dilution or adjustments necessary.

STORAGE CONDITIONS

Store in refrigerator at 2-8°C through expiration date noted on the vial.

Continued Next Page

INSTRUCTIONS

For lyophilized antibodies, enzymes, proteins, antibody-labeled fluorochromes and polymers (antibody-enzyme conjugates): Add recommended volume of Azide-free ImmunoDiluent and store in refrigerator at 2-8°C for 4 years. For extended shelf life beyond 4 years, aliquot and freeze in -20°C freezer. Dilute to working concentration in **Azide-Free ImmunoDiluent** for the particular assay. Working dilutions can also be stored in refrigerator for 4 years from the date diluted.

For liquid concentrate antibodies, enzymes, polymers, proteins and fluorochromes: Dilute by the recommended dilution factors for the assay of interest. Diluted antibodies, enzymes, polymers and proteins in Azide-free ImmunoDiluent are stable in refrigerator for 4 years from the date diluted. For shelf life beyond 4 years aliquot and freeze in -20°C freezer.

For continuous use; Dilute antibodies, enzymes, fluorochromes and polymers in **Azide-free ImmunoDiluent** and store in refrigerator at 2-8°C. This prevents daily dilutions of antibodies, polymers and enzymes. For extended storage over 4 years; Aliquot in small volumes and freeze at -20°C.

NOTES

For best results do **not** thaw and freeze antibodies, protein, polymers and enzymes more than once, they lose activity upon repeated freezing and thawing.

FOR PROFESSIONAL AND RESEARCH USE ONLY

FOR ADDITIONAL TECHNICAL SUPPORT

Phone: (510) 234-6600 Web: www.innovexbio.com

Email: techsupport@innovexbio.com

INNOVEX
b i o s c i e n c e s

