Carbonate buffer for Coating

Product Name	Product Code	Kit Packing
Carbonate buffer for coating	ML224-100ML	100ml
	ML224-500ML	500ml

Introduction:

Coating is the first step in any ELISA. Coating means the immobilization of antigen, antibodies or any other compound on the well surface. It is the process where a suitably diluted antigen or antibody is incubated until adsorbed to the surface of the microtiter plate. Adsorption occurs passively as the result of hydrophobic interactions between the amino acids side chains on the antibody or antigen used for coating, and the plastic surface. It is dependent upon time, temperature, and the pH of the coating buffer, as well as the concentration of the coating agent.

Description:

HiMedia's Carbonate Buffer for Coating is a carbonate-based buffer designed to use in any ELISA format for proteins and antibody coating on polystyrene plate. It helps to immobilize and stabilize the coating antigen or antibody added to the wells to maximize the adsorption of the protein to polystyrene plates. By stabilizing the adsorbed protein, the antigenic regions are preserved allowing greater binding reactivity and enhanced specific signal.

Application:

- Enhances the absorption of antigens or antibodies onto ELISA plates
- Stabilize tertiary structures of adsorbed antibodies and antigens
- Increases shelf life of coated plates

Composition:

Carbonate buffer for Coating (100mM) consists of 29 mM Sodium Carbonate and 71 mM Sodium bicarbonate with pH 9.6.

Concentration:

The coating buffer is supplied as a ready to use.

Properties:

Appearance	:	Colorless solution
Clarity	:	Clear and free of particles
Sterility	:	No Bacterial or Fungal growth observed after 14 days of incubation as per USP Specifications
Suitability test	:	This solution has been tested and is suitable for use in ELISA procedures.

Please refer disclaimer Overleaf.

ISO 9001-2015 CERTIFIED
WHO GMP CERTIFIED
ISO 13485-2016 CERTIFIED

Registered Office
HiMedia Laboratories Pvt Ltd.
Plot No. C-40, Road No. 21Y, MIDC, Wagle Industrial Area,
Thane, (West) 400604, Maharashtra, INDIA.
Customer Care No.: 00-91-22-6116 9797
Tel : 00-91-22-6147 1919, 6903 4800
Fax : 6147 1920
Web : www.himedialabs.com
Email : info@himedialabs.com
mb@himedialabs.com

Protocol:

1. Dilute the coating antigen or antibody in a coating buffer at required concentration. (Typically, 1-10 µg/ml)
2. Add 50-200 µl of coating buffer containing coating antigen or antibody to the wells of microtiter plates.
3. Shake the microtiter plate and cover with lid or sealing film.
   Note: During coating, it is important to maintain the plates in a moist environment to minimize evaporation.
4. Incubate overnight at 4°C or 2-3 hours at Room temperature.
   Note: incubation time and temperature can vary depending upon antigen and antibody used for coating.

Storage conditions:

Carbonate Buffer for Coating has to be stored at 2-8 °C. Under recommended condition, the reagent is stable for 6 months.

Warning and Precautions

Not for Medicinal Use. Read the SDS carefully before beginning the protocol. Wear protective gloves/protective clothing/eye protection/face protection. Follow good clinical laboratory practices while handling clinical samples. Standard precautions should be followed as per established guidelines. Safety guidelines may be referred in safety data sheets of the product.

Performance and Evaluation

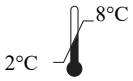
Performance of the solution is expected when the solution is stored at recommended temperature and within the expiry period.

Safety Information

The Carbonate Buffer for Coating is for laboratory use only, not for drug, household or other uses. Take appropriate laboratory safety measures and wear gloves and safety goggles when handling. Not compatible with disinfecting agents containing bleach. Please refer the Safety Data Sheet (SDS) for information regarding hazards and safe handling practices

Technical Assistance

At HiMedia we pride ourselves on the quality and availability of our technical support. For any kind of technical assistance, mail at mb@himedialabs.com.



Storage temperature


Do not use if package is damaged


HiMedia Laboratories Private Limited,
Reg. Off: Plot No. C-40, Road No. 21Y,
MIDC, Wagle Industrial Area, Thane,
(West) 400604, Maharashtra, INDIA.
Web: www.himedialabs.com