

### HiPurA® ELISA Buffers Kit

<u>Product Name</u>	<u>Product Code</u>	<u>Kit Packing</u>
HiPurA® ELISA Buffers Kit	ML236 – 1KT	1 Kit

#### **Introduction:**

Enzyme linked immunosorbent assay or ELISA is a sensitive immunological technique to detect the presence of a specific antigen (Ag) or antibody (Ab) in a biological sample. It utilizes the dual properties of antibody molecules being specific in reactivity and their ability to be conjugated to active molecules such as enzymes. An enzyme conjugated with an antibody reacts with a chromogenic colorless substrate to generate a colored reaction product. ELISA is extensively used for diagnostic purpose which utilizes the dual properties. It requires an immobilized antigen/antibody bound to a solid support (e.g. microtiter plate).

#### **Description:**

HiPurA® ELISA Buffers Kit is intended for use while performing ELISA. This kit provides all the general buffers required to perform ELISA.

#### **Contents:**

This kit contains the following reagents sufficient for 10 ELISA Plates.

<b>Sr. No.</b>	<b>Product Code</b>	<b>Product Name</b>	<b>Quantity</b>
1	ML224	Carbonate Buffer for Coating	100 ML x 2 No
2	*DS0236	Coating Buffer	100 ML x 2 No
3	DS0230	10X Wash Buffer	500 ML x 1 No 100 ML x 1 No
4	*ML168	TMB Substrate solution (for ELISA)	15 ML x 2 No
5	ML188	2M Sulphuric Acid	100 ML x 2 No
6	ML183	Blocking Buffer (10% BSA in 1XPBS)	100 ML x 2 No

\*DS0236 – Coating Buffer is Phosphate based

\* ML168 - TMB Substrate solution (for ELISA) is provided as 10X Concentrate. It should be diluted to 1X with Molecular Biology Grade Water prior to use.

#### **Intended Use**

HiPurA® ELISA Buffers Kit contains buffers and reagents to be used to perform ELISA.

## Features

- Hassle Free
- Time Save
- Ready-to-Use

## Storage

Store the HiPurA® ELISA Buffers Kit at 2-8°C. Under recommended condition, the solution is stable for 6 months. The reagents are recommended be opened under aseptic conditions.

## Recommended Procedure for use:

- **Carbonate buffer for Coating:** Carbonate buffer for Coating (100mM) consists of 29 mM Sodium Carbonate and 71 mM Sodium bicarbonate with pH 9.6. It is colorless clear solution 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.
- **Coating Buffer:** Phosphate based Coating Buffer is composed of 137 mM Sodium chloride, 10 mM Disodium hydrogen phosphate, 2 mM Potassium dihydrogen phosphate with pH 7.4. It is colorless clear solution 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.
- **10X Wash Buffer:** 10X Wash Buffer is a detergent based reagent. It is a colorless clear buffer intended to be used for rinse microtiter plates during the coating process and between reagent addition steps of an ELISA. Prior to use, Dilute 10X Wash Buffer to 1X with deionized water (Recommended Product Code: ML064) and mix for approximately 15 minutes.  
**Note:** 10X Wash Buffer supplied is concentrated, so crystalline precipitates may form in the bottle, especially when refrigerated. If this happens, gently warm or mix the buffer until all crystals are dissolved. Do not let it boil.
- **10% BSA in 1X PBS:** 10% BSA in 1X PBS can used as a blocking agent for ELISA plates, as a diluent for ELISA standards and samples, as a diluent for the detector antibody, and as a diluent for the HRP conjugate. It is pale yellow to yellowish colored clear solution. Prior to use, it is recommended to be diluted to 1% with 1X PBS (Product Code: ML116). This diluted buffer should be stored at 2-8°C.
- **TMB Substrate solution (for ELISA):** TMB Substrate Solution contains soluble TMB (3,3',5,5'-tetramethylbenzidine) in a proprietary solution. This solution is in 10X strength and is colorless. Prior to use, dilute to 1X with Molecular Biology Grade Water (Recommended Product Code: ML064) and store it in amber bottle.
- **2M Sulphuric Acid:** 2M Sulphuric acid can be used as a Stop solution in ELISA where 3,3',5,5'- tetramethylbenzidine (TMB) acts as a substrate. This solution is in 2M strength

and colorless. It can be used as 1M or 2M depending upon the requirement but adjusting the final volume of the same.

### **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 product is expected when the kit is used as per the protocol mentioned in the product insert within the expiry period when stored at recommended temperature.









### **Safety Information**

HiPurA<sup>®</sup> ELISA Buffers Kit is for laboratory use only, not for drug, household or other uses. Take appropriate laboratory safety measures and wear gloves and safety goggles while 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](mailto:mb@himedialabs.com).

## Symbol

	Manufacturer		Do not use if package is damaged
	Batch code		Temperature limit
	Date of manufacture (YYYY-MM)		Consult instructions for use
	Use-by date (YYYY-MM)		Catalogue number

Identification No.: PIML236

Rev No.: 01

Date of Issue: 2025-05

### Disclaimer :

User must ensure suitability of the product(s) in their application prior to use. Products conform solely to the information contained in this and other related HiMedia™ publications. The information contained in this publication is based on our research and development work and is to the best of our knowledge true and accurate. HiMedia™ Laboratories Pvt Ltd reserves the right to make changes to specifications and information related to the products at any time. Products are not intended for human or animal or therapeutic use but for laboratory, diagnostic, research or further manufacturing use only, unless otherwise specified. Statements contained herein should not be considered as a warranty of any kind, expressed or implied, and no liability is accepted for infringement of any patents.

HiMedia Laboratories Pvt. Ltd. Reg. office : 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 Email: techhelp@himedialabs.com Website: www.himedialabs.com