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**USA**-48810 Kato Road, Suite 100E & 200E,
Fremont, CA94538
Tel : +1(800)421-4149,
Fax: +1(510)824-1490,
support@biogenex.com
**INDIA**-Special Economic Zone, Adibatla,
Telangana state, Hyderabad, India ,
501510.

# DATA SHEET
# OmicsVeu Prep Solution
# Recommended for use with the EZ-Retriever®

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## INTENDED USE

The OmicsVeu Prep solution is designed to deparaffinize, rehydrate and recover antigenicity of epitopes in formalin-fixed, paraffin-embedded tissue sections. These products are for Laboratory Use Only.

## DESCRIPTION

**OmicsVeu Prep:**

OmicsVeu Prep is a xylene-free and alcohol-free solution, offering a safe, odorless, and environmentally friendly alternative to conventional dewaxing reagents. This solution performs dewaxing and rehydration in formalin-fixed, paraffin-embedded tissue sections using microwave heating. It is non-toxic, non-flammable. This solution ensures uniform dewaxing, rehydration and antigen retrieval. The main advantages of this solution are:

1. Eliminates the use of enzymes as pretreatment in most cases, hence removing the guesswork from optimizing treatment time on the basis of tissue fixation.
2. Reduces background staining: OmicsVeu Prep increase the availability of antigenic epitopes in tissues due to their unique capability of being heated up to a temperature of 105°C.
3. Better quality staining due to unique properties of solution.
4. Preserves morphology of tissues.
5. Non-toxic and non-flammable.

OmicsVeu Prep solution is recommended for use in the EZ-Retriever® IR System (Cat. No. MW015-IR-230V, MW016-IR-110V). The EZ-Retriever® IR System and accessories offer a time and temperature controlled environment for heating of solutions. Use of any other microwave will result in uncontrolled heating of the solutions thus optimized staining results in any other microwave other than EZ-Retriever® IR System cannot be guaranteed.

## PRODUCT AVAILABILITY

| Name | Catalog Number | Format |
|---|---|---|
| OmicsVeu Prep | HL025-XAK | 1L |
| OmicsVeu Prep | HL025-XEK | 1 Gallon |

## METHOD OF USE

**DeWaxing ,Rehydration and Antigen Retrieval :**

1. Place the slide rack in the EZ-Retriever® IR System and heat the slides for 15 minutes at 70ºC.
2. Proceed to the Dewax ,rehydration and Antigen Retrieval step at 105 ºC-15min 2 cycles. Allow the slides to cool for 20mins on the bench. (Note:Place the slides in a tank containing OmicsVeu Prep solution. (Recommended volume for slide tanks is 250 ml ± 5 ml.) If no. of slides are less than 24, then volume will be higher (270-280ml) than the recommended one.)
3. Wash slides in DI water for 5 min. Then transfer them to IHC wash buffer and keep the slides in buffer for 5 min or until they are ready to be stained.

**Note: Please do not use polypropylene Coplin jars as they may melt at high temperature.**

## STORAGE AND HANDLING

| | |
|---|---|
| **OmicsVeu Prep** | Store solution at 20°-26°C |

**SAFETY CLAIMS:**

1. Non-flammable, unlike xylene and alcohol-based dewaxing agents.
2. Eliminates hazardous fumes associated with xylene.
3. Safer for technicians and environmentally friendly.

**PRECAUTIONS**

Solutions will reach high temperature during use, please handle with care. Wear suitable protective clothing, thermal protective gloves and eye/face protection. Not regarded as a health or safety hazard under current legislation.
The OmicsVeu Prep may be discarded after use as any other non-hazardous waste. However, OmicsVeu Prep may not be disposed off in the sink after usage in the dewaxing step. The residual wax in the solution may cause plumbing problems.

**LIMITATIONS**

The Antigen Retrieval protocol is recommended for use with tissues fixed *with formalin only*. Other fixatives or fixation procedures may not produce comparable results. Interpretation of the staining results is solely the responsibility of the user. Some tissues may show heat artifact.

**REFERENCE ARTICLES**


1. *Shi, S.R., et al. Antigen retrieval in formalin-fixed, paraffin-embedded tissues: an enhancement method for immunohistochemical staining based on microwave oven heating of tissue sections. J Histochem. Cytochem 39:741-748, 1991.*
2. *Gown, A. M., et al. Microwave-based antigenic unmasking: a revolutionary new technique for routine immunohistochemistry. Appl. Immunohistochem. 1:256-266, 1993.*
3. *Shi, S. R., et al. Antigen retrieval technique: a novel approach to immunohistochemistry on routinely processed tissue sections. Cell Vision 2:6-22, 1995.*
4. *Shi, S.R., et al. Antigen retrieval immunohistochemistry under the influence of pH using monoclonal antibodies. J. Histochem. Cytochem. 43:193-201, 1995.*