

Antigen Unmasker System Tablet Format

Catalog No.:	DSI 5030
Product:	Antigen Unmasker System
Format/Appearance:	20 solid white tablets
Storage:	Store at room temperature. Do not use beyond the expiration date stated on the label.
Intended Use:	To recover antigens masked by fixation in linking fixatives like formalin.
Introduction:	<p>In order to perform immunostaining tissue specimens should be fixed in appropriate fixative. The purpose of fixatives is to conserve tissue from autolysis, to preserve tissue structures, and to immobilize antigens. This requires harsh treatment of the antigens and, as a result, antigens undergo chemical alteration of their primary, secondary, and tertiary structures. Antigenic sites may be masked because of changes in the protein containing epitopes or in neighboring proteins. In the past, enzymatic treatment with proteolytic enzymes, i.e. pepsin, trypsin, or pronase, has been performed to regain masked antigens. Shi et al. (1991) have reported that treatment of the tissue sections with a heavy metal solution in a microwave can regain the masked antigens significantly. However, heavy metals in solution increases the risk of exposure of lab personnel to lead. To solve this problem we have developed a new antigen unmasking solution in tablet form which is free of heavy metals. Use of Antigen Unmasker can prevent the risk of unnecessary exposure to heavy metals and also resolves handling and disposal problems.</p>
Preparation of Reagent:	Dissolve one tablet in 15mL of deionized water.
Procedure:	<ol style="list-style-type: none">1. Deparaffinize and bring tissue sections to wash buffer.2. Fill the plastic coplin jar with Antigen Unmasker solution.3. Place deparaffinized slides (1 or 2 slides/jar) in a coplin jar and place jar in the microwave (3 jars max at a time).4. Microwave at a power of 700 or above for 2-5 times, depending on the tissue fixation, for 5 minutes each.5. Refill the jar with Antigen Unmasker between treatments.6. Leave slides at room temperature for about 20 minutes after the last treatment. Do not let the slides dry.7. Wash slides in de-ionized water then with wash buffer and proceed with immunostaining.

IVD: For In Vitro Diagnostic Use

DBS will not be held responsible for patent infringement or other violation that may occur with the use of our product

DBS

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Precautions and Safety:

1. Indication of danger: Irritant
2. Risk Statements: Irritating to eyes, respiratory system, and skin.
3. Safety Statements: In case of contact with eyes, rinse immediately with plenty of water, and seek medical advice. Wear suitable protective clothing.
4. Substances to be avoided: Strong oxidizing agents and strong acids
5. Disposal: dissolve or mix material with a combustible solvent and burn in a chemical incinerator. Observe all federal, state, and local environmental regulations.

Regulatory Information:

EU Additional Classification

Symbol of Danger: Xi
Indication of Danger: Irritant
R: 36/37/38
Risk Statements: Irritating to eyes, respiratory system, and skin.
S: 26-36
Safety Statements: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Wear suitable personal protective equipment.

US Classification/Label Text

Indication of danger: Irritant
Risk Statements: Irritating to eyes, respiratory system, and skin.
Safety Statements: In case of contact with eyes, rinse immediately with plenty of water, and seek medical advice. Wear suitable protective clothing.

Canada Regulatory Information

WHMIS Classification: This product has been classified in accordance with the hazard criteria of the CPR, and the MSDS contains all the information required by the CPR.
DSL: No
NDSL: No

Reference:

Shi et al. J Histochem Cytochem 39: 741, 1991.

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