

Epitope Unmasking Solution

(10x)

Catalog# SKC-904

Size: 500mLs

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StressMarq

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This product is for *in vitro* research use only and is not intended for use in humans or animals

Product	A liquid buffer composed of 10% or less of citric acid anhydrous.
Applications	Antigen Retrieval is used to recover antigenicity in formalin-fixed, paraffin-embedded tissues, producing greatly improved staining, and preventing false negative staining of over-fixed tissue. Formulin fixation of tissues creates protein cross links that deactivate digestive enzymes and preserve the cytoskeleton, thereby maintaining cellular morphology. A side effect of such treatment causes changes in epitopes, making them less accessible to primary antibody binding. High heat treatment in the appropriate pH solution restores epitope configuration allowing for optimal antibody-antigen binding.
Storage and stability	4°C (Do NOT freeze); 1 year+; shipped on cold packs or ambient

Directions for use

Prior to use, dilute buffer to 1X in dd H₂O.

Microwave method:

Place slides, held in glass slide rack, in microwavable container, and add enough Epitope Unmasking Solution™ to cover slides completely. Microwave on high until solution comes to a rapid boil, usually ½ to 3 minutes. Turn off microwave. Set microwave to 200W (or 20% power) and simmer for 10 minutes. Remove container from microwave and let sit at room temperature for 20 min. Continue with washing and immunostaining protocol.

*** this method should be adjusted for optimal performance for each antibody.

Boiling Method (for fatty tissues, such as brain and breast tissue):

Fill a 2L (or larger) glass beaker with 600-750mls 1x Epitope Unmasking Solution™ (enough to cover glass slide rack). Keep metal handle on. Set on heat plate, add a pinch of boiling chips, and turn heat setting to high. Once boiling, set heat to lowest setting that keeps the solution boiling at a simmer. Add glass slide rack containing samples and boil for exactly 8 minutes. Quickly remove glass beaker and add 500 mls of cold or room temp dd H₂O. Wait 3 minutes and resume washing step and immunostaining protocol.

Autoclave method ***RECOMMENDED***

Fill a 1 liter autoclave resistant plastic container with 300 mls 1X Epitope Unmasking Solution™. Submerge slides held in glass slide rack, and remove metal handle. Make sure solution totally covers slides. Put in autoclave, set on "slow exhaust" and run at ~121°C for 20 minutes. Remove plastic slide container and keep at room temp in solution for 20 min. Remove slide rack to glass slide holder and continue with washing and immunostaining protocol.

Precautions

For professional users.

1. Follow storage conditions as to minimize the possibility of microbial contamination of reagents.
2. As with any product, proper handling procedures should be used.
3. Wear appropriate protective equipment to avoid contact with eyes and skin.

Notes

This product does not contain preservatives. Preservatives such as sodium azide inhibit key enzymes involved in IHC technology such as peroxidases. This quenching can cause the occurrence of false negative results. Due to the absence of preservatives, it is advised to keep strict adherence to storage conditions, proper handling, and disposal of the reagent after expiration occurs.

Material Safety Data Sheet

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The below information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. StressMarq shall not be held liable for any damage resulting from handling or from contact with the above product. See the Technical Specification, Packing Slip, Invoice, and Product Catalogue for additional terms and conditions of sale.

Hazardous Ingredients

The physical, chemical and toxicological properties of these components have not been fully investigated. It is recommended that all laboratory personnel follow standard laboratory safety procedures when handling this product. Safety procedures should include wearing OSHA approved safety glasses, gloves and protective clothing. Direct physical contact with this product should be avoided.

<u>Known Hazardous Components</u>	<u>CAS Number</u>	<u>Percent</u>
Citric Acid Anhydrous	5949-29-1	10% or less

Physical Data

This product is composed of a citric acid anhydrous (10% or less) based buffer solution shipped on gel packs. The physical properties of this product have not been investigated thoroughly.

Fire and Explosion Hazard and Reactivity Data

NOT APPLICABLE

Toxicological Properties

May be harmful by inhalation, ingestion, or skin absorption. The toxicological properties of this product have not been investigated thoroughly. Exercise due caution.

Preventative Measures

Wear chemical safety goggles and compatible chemical-resistant gloves. Avoid inhalation, contact with eyes, skin or clothing.

Spill and Leak Procedures

Observe all federal, state and local environmental regulations.

- Wear protective equipment.
- Absorb on sand or vermiculite and place in closed containers for disposal.
- Dispose or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

First Aid Measures

- If swallowed, wash out mouth with water, provided person is conscious. Call a physician.
- In case of skin contact, flush with copious amounts of water for at least 15 minutes. Remove contaminated clothing and shoes. If a rash or other irritation develops, call a physician.
- If inhaled, remove to fresh air. If breathing becomes difficult, call a physician.
- In case of eye contact, flush with copious amounts of water for at least 15 minutes while separating the eyelids with fingers. Call a physician.

Authorized: StressMarq Biosciences Inc.
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