



BIOPRIME

Product Specification

Art.-Nr.: **DE008**

Unmasking Fluid H

Urea based ready to use solution

Presentation: 250 ml ready to use solution

General information: Aldehyde fixation (Formaldehyde fixation) of tissues generally causes cross-linkage of protein chains and results in masking of antigens present in the treated tissue. This makes the antigen epitopes undetectable for many antibodies applied for immunohistochemistry. Mainly monoclonal antibodies, but also monospecific polyclonal antibodies will react with reduced binding or no binding at all.

Since Formaldehyde fixation is the most important fixation method in routine histology, high temperature unmasking methods for immunohistochemistry, as developed during recent years, are very important tools for cell and tissue research and pathological diagnostics.

Unmasking fluid H (urea based) has been proven to be a very helpful tool in the detection of some antigens, which are otherwise more difficult to detect. Especially good results were obtained with E-Cadherin.

Application: After de-waxing the tissue slices they are transferred into a suitable slide holder and staining dish and covered with ready to use Unmasking Fluid H. The staining dish must be heated to 90 - 100° C. The incubation time and heating method may vary depending on the antigen to be detected and the laboratory facilities.

We have found that 3 min at 100°C in a pressure cooker are suitable in most cases. Alternatively 5 min in a microwave oven (600 Watt) has been successfully applied. If water loss happens during the microwave procedure, the solution can be refilled with distilled water. Slides should never fall dry during unmasking and staining! It is not recommended to keep tissue slices for prolonged period of time within the unmasking fluid, since the high urea concentration will certainly disintegrate the tissue.

Unmasking Fluid H may be reused several times. If a blue-green colour turns up, effectivity may be reduced and the solution must be replaced by a new one.

Good results have been

reported for: E-Cadherin, ECM proteins and steroid receptors (e.g. Progesteron Receptor)

Storage: 2-8°C until expiration date

- DE008 is intended for *in vitro* research only, not for clinical diagnostics or therapy. It must not be applied to living animals or humans.
- DE008 doesn't contain toxic heavy metals.

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