



BIOPRIME Product Description

For Immunohistochemistry

Art.-No.: DE005

Unmasking Fluid T

TEC-Buffer pH 8

Presentation: 100 ml 10-times concentrated 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 mono-specific 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 pathology.

Antigen unmasking based on citrate buffer are most frequently used for unmasking hidden epitopes. However for the detection of some antigens or the simultaneous detection of two or more antigens more sophisticated buffers may be required. **Unmasking fluid T on Tris/EDTA/Citrate basis has been used for a number of antigens and is specially useful for the combined detection of P504S, p63 and HMW cytokeratins in prostate tissues.**

Application: Dilute 1 part of the concentrated Unmasking Fluid T with 10 parts of distilled water. After de-waxing the tissue slices they are transferred into a suitable slide holder and staining dish and covered with diluted Unmasking Fluid T. The staining dish must be heated to 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 in a pressure cooker heating up for 10 min, cooking for 3 min and cooling down for additional 17 min is suitable in most cases. Alternatively 2 x 5 min in a microwave oven (500 Watt) may be used. 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!

Good results have been established for: p63, P504S, HMW-Cytokeratin, PIN-Cocktails 1 und 2

Storage: 2-25°C until expiry date

Notes:

DE005 is a research reagent for *in vitro* investigations only. The product must not be used for clinical diagnostics and not for in vivo experiments in humans or animals.

DE005 doesn't contain toxic heavy metals.

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