



**BIOPRIME**

## Product Specification

Art.-No.: **DE007**

# Unmasking Fluid G

Concentrated solution on glycol basis

**Presentation:** 250 ml 4 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 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.

One of the most effective solutions for antigen unmasking is an unmasking fluid on glycol basis, one of which is our "Unmasking Fluid G" (Code No. DE007). Unmasking Fluid G makes antigens detectable after formaldehyde fixation of tissues, even after prolonged fixation times. Usage of this Unmasking Fluid G usually guarantees also a good preservation of cellular structures. In this respect it is superior to unmasking fluids on citrate or urea basis, which might have their own advantages in detection of certain antigens.

**Usage:** Dilute 1 part of the concentrated Unmasking Fluid G with 3 parts of distilled water or 0.01 M PBS. After dewaxing the tissue slices they are transferred into a suitable slide holder and staining dish and covered with diluted Unmasking Fluid G. 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 20 min at 100°C in a pressure cooker are suitable in most cases. Alternatively 2 x 5 min in a microwave oven has been successfully applied for most antigens named below. If a 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 are obtained for the following antigens\*:**

Human: AMACR, ATF-2 (Thr71), B cells (CD20), BAX, bcl-2 oncoprotein, CD34 (QBEND10), CEA, Cytokeratins, c-erbB-2, Desmin, HEA125, Ki-67, MAC387, MAP-Kinase (1/2), Melan-A (MART-1) neurofilaments, NSE, Estrogen Receptor, p53 protein, p63 protein, p170 glyko-protein, P504S, PSA, Synaptophysin, Thyroglobulin, TTF-1, T cells (CD3ε and CD45RO), Vimentin (V9 und 3B4), von Willebrand-Factor etc.

Rat: CD4 (W3/25), CD8 (OX-8), CD11b (OX-42), CD25 (OX-39), CD45RA (OX-33), Macrophages (ED1, ED2, MAC387)

**Storage:** 2-25°C until expiration date

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\* Results were reported by different customers and BIOLOGO's QC laboratory.

DE007 is a reagent for *in vitro* research use only, not for diagnostic use.

DE007 doesn't contain toxic heavy metals.

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