

BlueCap Solutions LX-Buffer

Product description

Antibody and sample diluent for minimizing nonspecific binding, cross-reactivities and matrix effects in immunoassays

pH-value:	pH 7.2 ± 0.2
Preservative:	contains < 0.0014% [w/w] mixture of CMIT/MIT (3:1)
Storage:	shelf life at +2 to +8°C: 6 months shelf life at -20°C: 12 months

For research use only, not for diagnostic use.

Package sizes:	50 mL (article no. S201.050) 125 mL (article no. S201.125) 500 mL (article no. S201.500)
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Application fields

ELISA: dilution buffer for specimen and detection antibodies
Western blotting: dilution buffer for primary and secondary antibodies
Immunohistochemistry: dilution buffer for primary and secondary antibodies
Protein arrays: dilution buffer for specimen and detection antibodies

Instructions for use

The *LX-Buffer* is ready-to-use. Please shake the buffer thoroughly before use.

Dilution of the specimen:

Standards and specimen for ELISA and protein arrays can be diluted with *LX-Buffer* at 1:2 or higher. Standards and specimen should be treated strictly the same way.

Dilution of antibodies:

Antibodies can be diluted with *LX-Buffer* in a user-defined manner, depending on the recommendation of the data sheet of the antibodies. This applies to primary and secondary antibodies.

Appearance of signal reduction:

In some cases, a smooth reduction of the wanted signal can be observed. *LX-Buffer* reduces low and medium-affinity binding. That means that by using polyclonal antibodies (which also contain low- and medium-affinity binding components) a smooth reduction of signals can appear.

In this case a moderate increase of the concentration of the antibody can lead to the previously seen signals. Unwanted low and medium-affinity binding will be still reduced by LX-Buffer.

By using monoclonal antibodies with low- or medium-affinity binding, a complete reduction of signal can occur. Therefore, we recommend using suitable antibodies with high affinity.

Suitability of *LX-Buffer* for a specific assay has to be tested by the user.

Although *LX-Buffer* is used as an assay buffer, it is necessary to saturate surfaces like ELISA wells or membranes with a blocker. We recommend using *Blocking Solution* (article number S204).

LX-Buffer can also be used as a washing buffer – especially in challenging or interference sensitive assays like immuno-PCR.