

*LowCross-Buffer*<sup>®</sup> MILD  
*LowCross-Buffer*<sup>®</sup> STRONG

(article no. 101)  
(article no. 102)

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

Storage:	2-8°C or -15 to -30°C (tolerates repeated freezing and thawing cycles)
pH-value:	7.2 ± 0.2
Preservative:	contains < 0.0014 % [w/w] reaction mass of CMIT/MIT (3:1)
Expiry date when stored unopened:	please refer to the label on the bottle

**For general laboratory use**

Fields of application:

**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**

*LowCross-Buffer*<sup>®</sup> 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 *LowCross-Buffer*<sup>®</sup> at 1:2 or higher. Standards and specimen should be treated strictly the same way.

Dilution of antibodies:

Antibodies can be diluted with *LowCross-Buffer*<sup>®</sup> 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. *LowCross-Buffer*<sup>®</sup> 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 *LowCross-Buffer*<sup>®</sup>.

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

Suitability of *LowCross-Buffer*<sup>®</sup> for a specific assay has to be tested by the user.

Although *LowCross-Buffer*<sup>®</sup> is used as an assay buffer, it is necessary to saturate surfaces like ELISA-wells or membranes with a blocker. We recommend using *The Blocking Solution* (article number 110).

*LowCross-Buffer*<sup>®</sup> can also be used as a washing buffer – especially in challenging or interference-sensitive assays like immuno-PCR.

For further information please visit [www.candor-bioscience.com](http://www.candor-bioscience.com).

LowCross-Buffer is a registered trade mark of CANDOR Bioscience GmbH.