

## LowCross-Buffer<sup>®</sup> protein-free

(article no. 300)

### 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 research use only, not for diagnostic 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> protein-free* 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> protein-free* 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> protein-free* 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> protein-free* 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> protein-free*.

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> protein-free* for a specific assay has to be tested by the user.

Although *LowCross-Buffer<sup>®</sup> protein-free* 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> protein-free* 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.