

LowCross-Buffer[®] MILD
LowCross-Buffer[®] 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 at 19.0 – 21.0 °C:	7.2 ± 0.2
Preservative:	contains < 0.0014 % [w/w] reaction mass of CMIT/MIT (3:1)
Expiry date when stored unopened:	see 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[®] is ready-to-use. Please shake the buffer thoroughly before use.

Dilution of the specimen:

Standards and samples for ELISA and protein arrays should be diluted with *LowCross-Buffer*[®] at 1:2 or higher. A useful dilution for most applications is 1:10 (1 part sample in 9 parts *LowCross-Buffer*[®]). Standards and samples should be treated identically.

Dilution of antibodies:


Antibodies can be diluted as required in *LowCross-Buffer*[®] according to the respective recommendation for dilution in the antibody data sheet. This applies to both primary and secondary antibodies.

Appearance of signal reduction:

The *LowCross*[®]-effect suppresses low and medium affinity binding events. As a consequence, a slight signal reduction may occur if polyclonal antibodies (which generally also contain low- and medium-affinity binding components) are used. In this case, the amount of high-affinity antibodies can be raised by moderately increasing the antibody concentration in order to achieve the desired signal strength again. The unwanted low and medium-affinity binding will remain suppressed by the *LowCross*[®]-effect.

When using low- or medium affinity monoclonal antibodies, signal deletion may occur as the *LowCross*[®]-effect completely suppresses their binding. We recommend the use of suitable high-affinity antibodies. The suitability of *LowCross-Buffer*[®] for the respective assay and the respective conjugates must be tested by the user.

Regardless of the use of *LowCross-Buffer*[®], it is necessary to saturate surfaces such as ELISA wells or membranes with a blocking buffer to avoid non-specific binding. For this purpose, we recommend *The Blocking Solution* (article no. 110). In rare cases, e.g. samples with high-affinity heterophilic antibodies,



interferences may still occur when using *LowCross-Buffer*[®] and *The Blocking Solution*. In such cases, the use of *Assay Defender*[®] (article no. 180) may be useful.

LowCross-Buffer[®] can also be used as a wash buffer for particularly interference-prone and sensitive assays such as immuno-PCR.

For further information please visit www.candor-bioscience.com.

LowCross-Buffer and Assay Defender are registered trade marks of CANDOR Bioscience GmbH.