



LowCross-Buffer[®]

LowCross-Buffer[®] is not for use as a blocking solution for surfaces!

Product description

pH-value:	pH 7.2 ± 0.2
Preservative:	contains 0.1% ProClin [®] 300
Storage:	shelf life at –20 °C: 1 year – tolerates repeated freezing and thawing cycles shelf life at 2 – 8 °C: 6 months

For research use only, not for diagnostic use

Available

Package sizes:	50 ml	order number 100 050
	125 ml	order number 100 125
	500 ml	order number 100 500

Instructions for use

LowCross-Buffer[®] was specially developed to minimise cross reactivities, nonspecific binding and matrix effects in immunoassays. It is designed for use in ELISA, EIA, RIA, Western blotting, immuno-PCR, protein arrays, multianalyte immunoassays and immunohistochemistry – depending on the characteristics of the assay type and the used antibodies.

Immediately before use the buffer should be mixed thoroughly.

LowCross-Buffer[®] is used instead of the standard sample or antibody dilution buffer.

LowCross-Buffer[®] is unsuitable for blocking of surfaces. For blocking of surfaces we recommend using our product *The Blocking Solution* (Order No. 110 050, 110 125 and 110 500).

LowCross-Buffer[®] is not useable as a sample buffer for electrophoresis.

Examples of use:

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

Dilution of the specimen:

Standards and specimen for ELISA and protein arrays can be diluted with *LowCross-Buffer[®]* 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[®]* in a user-defined manner, depending on the recommendation of the data sheet of the antibodies. This is the same for primary and secondary antibodies.

Appearance of signal reduction:

In some cases a smooth reduction of the wanted signal can be observed. *LowCross-Buffer*[®] reduces low- and medium-affinity binding. That means that by using low- and medium-affinity antibodies or polyclonal antibodies a smooth reduction of signals can appear. Polyclonal antibodies normally contain low- and medium-affinity binding components.

In the case of polyclonal antibodies 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*[®].

Although *LowCross-Buffer*[®] is used as an assay buffer, it is necessary to saturate surfaces like ELISA-wells or membranes with a blocker. We recommend using our product *The Blocking Solution* (Order No. 110 050, 110 125 and 110 500).

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

Components of immunoassays – as well as components of *LowCross-Buffer*[®] – maybe quench the fluorescence of fluorescein dyes. Therefore we recommend using Oyster*- (Denovo Biolabels), CyDye**- (Amersham) or Alexa***- (Molecular Probes) fluorescence dyes.

Testing *LowCross-Buffer*[®] in any new assay is recommended.

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

*Oyster is a registered trade mark of the company Denovo Biolabels.

**CyDye is a registered trade mark of the company Amersham Biosciences.

***Alexa Fluor Dye is a registered trade mark of the company Molecular Probes.

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