

Sample diluent for blocking HAMA and other high affinity interfering antibodies and minimizing nonspecific binding, cross-reactivities and matrix effects in immunoassays based on human or animal body fluids

Storage:	2 - 8 °C
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:**

Assay Defender[®] is used as a ready-to-use dilution buffer for human or animal body fluid specimens in sandwich or competitive assay formats. Application areas are different assay technologies, such as ELISA, protein arrays, bead assays (e.g. Luminex assays), immuno-PCR, automated high-throughput immunoassay systems or lateral flow assays (as chase or flow buffer). *Assay Defender[®]* prevents faulty results caused by nonspecific cross-linking of capture and detection antibody due to high affinity interfering antibodies like HAMA and interferences caused by nonspecific binding, cross-reactivities and matrix effects. Addition of other HAMA blockers to *Assay Defender[®]* is not necessary.

Instructions for use

Assay Defender[®] is ready-to-use. Please shake the buffer thoroughly before use.

Dilution of the specimens:

Standards and specimens can be diluted with *Assay Defender[®]* at 1:2 or higher. A useful dilution in *Assay Defender[®]* for most applications is 1:10 (1 part specimen in 9 parts *Assay Defender[®]*). Standards and specimens should be treated strictly the same way.

Note: *Assay Defender[®]* is not used as diluent for antibodies. We recommend using *HRP-Protector[™]* (article number 222), *LowCross[®] HRP-Stab* (article number 270) or *AP-Protector[®]* (article number 235) for the dilution of detection antibodies.

Appearance of signal reduction:

In some cases, a smooth reduction of the wanted signal can be observed. *Assay Defender[®]* 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 still be reduced by *Assay Defender[®]*.

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

Suitability of *Assay Defender[®]* for a specific assay has to be tested by the user.

Even if *Assay Defender[®]* is used as an assay diluent, it is still necessary to saturate surfaces like ELISA-wells with a surface blocker. We recommend using *The Blocking Solution* (article number 110).

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

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