



LowCross-HRP[®]

LowCross-HRP[®] is a dilution buffer and storage solution for peroxidase-conjugates!

Product description

pH-value: 7.2 ± 0.2

Preservative: contains 0.045% ProClin[®] 300 (v/v)

Storage: shelf life (when stored unopened at 2 - 8 °C): 2 years - Does not tolerate freezing!

For research use only, not for diagnostic use

Available

Package sizes:	50 mL	order number 200 050
	125 mL	order number 200 125
	500 mL	order number 200 500

Instructions for use

LowCross-HRP[®] is a dilution buffer for long-term storage of peroxidase-conjugates. This can be antibody-peroxidase-conjugates as well as Neutravidin- or Streptavidin-peroxidase-conjugates. Conjugates can be diluted directly in *LowCross-HRP[®]* in end-user concentrations. Typical concentrations of conjugates are in between 40 and 500 ng/ml.

Immediately before use the buffer should be mixed thoroughly.

LowCross-HRP[®] is a combination of *LowCross-Buffer[®]* and a modern stabilizer for stabilizing antibodies and peroxidase. Therefore you get long-term stabilization as well as the *LowCross-Buffer[®]* effect in one solution.

The *LowCross-Buffer[®]* effect:

LowCross-Buffer[®] was specially developed to minimise cross reactivities, nonspecific binding and matrix effects in immunoassays. Interference derived from HAMA (human anti-mouse antibodies) rheumatoid factors or other endogenous interfering factors can be reduced significantly.

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 detector-antibodies or polyclonal detector-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.

HRP – long-term stabilization of peroxidase:

LowCross-HRP[®] contains stabilizing components for antibodies and for peroxidase. This makes *LowCross-HRP*[®] the ideal solution, if you want to store peroxidase-conjugates for a long period in a ready-to-use solution. Dilute the conjugates directly in *LowCross-HRP*[®].

Stabilization of a HRP-antibody conjugate by a leading enzyme stabilizer product was compared to stabilization by *LowCross-HRP*[®] (see fig. 1). *LowCross-HRP*[®] provides the best long-term stabilization of the HRP-antibody conjugate.

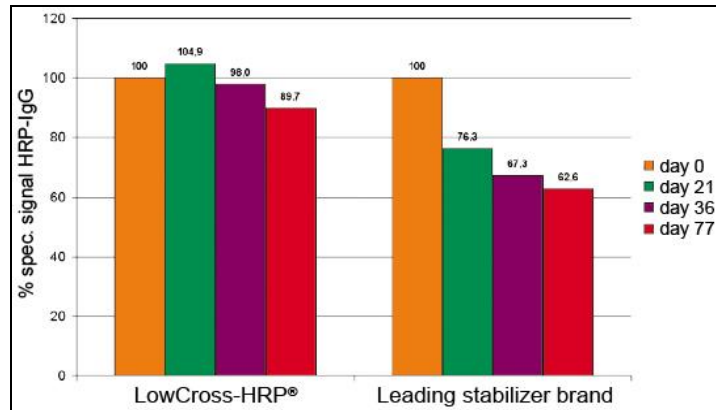


Fig. 1 Shelf life of HRP-antibody conjugate bound to the analyte is measured as peroxidase signal in an ELISA and given as % value of freshly diluted HRP-antibody conjugate. Detector-conjugate concentration was 40 ng/ml.

Testing *LowCross-HRP*[®] with any new assay is recommended.

Stability data of one peroxidase-conjugate cannot be transferred to other conjugates. Therefore every conjugate has to be tested for its shelf life in *LowCross-HRP*[®]. If *LowCross-HRP*[®] is used for immunodiagnostic kits, the shelf life has to be tested according to the current European directive for in-vitro-diagnostics or according to corresponding rules, which apply.

Please note that high protein concentration and/or microbial contamination may lead to reduced effectivity of the preservative. The concentration of the preservative ProClin[®] 300 in this stabilizer is 0.045% (v/v) (450 µl per Liter of Stabilizer).

If you add your conjugate / antibody for storage and you are not sure about the potential microbial contamination, it may be beneficial to add additional preservatives or antibiotics.

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

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