

## LowCross® HRP-Stab

### Product overview

<b>Catalog number</b>	CR270
<b>Description</b>	Assay diluent for long-term storage of HRP conjugates and for minimizing nonspecific binding, cross-reactivities and matrix effects in immunoassays
<b>Storage</b>	2 – 8 °C (Does not tolerate freezing!)
<b>pH-value at 19.0 – 21.0 °C</b>	7.2 ± 0.2
<b>Preservative</b>	Contains < 0.0014 % [w/w] reaction mass of CMIT/MIT (3:1)
<b>Expiry date when stored unopened</b>	See label on the bottle

FOR RESEARCH OR FURTHER MANUFACTURING USE ONLY

### Instructions for use

LowCross® HRP-Stab is ready-to-use. Please shake the buffer thoroughly before use.

Conjugates can be diluted directly in LowCross® HRP-Stab at end concentrations. Typical conjugate concentrations are in the range of 40 to 500 ng/ml. LowCross® HRP-Stab can be used directly as assay buffer in immunoassays.

#### 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® HRP-Stab for the respective assay and the respective conjugates must be tested by the user.



#### Legal disclaimer

Stability data of one peroxidase conjugate cannot be directly transferred to other conjugates. Therefore, each conjugate must be tested for its shelf-life in LowCross® HRP-Stab. If LowCross® HRP-Stab is used for immunodiagnostic kits, the shelf life has to be tested according to the applicable regulatory requirements for diagnostics.

LowCross® HRP-Stab contains components that may interfere with commonly used conjugation methods, e.g. techniques that target primary amines or sulfhydryl groups. Suitability of LowCross® HRP-Stab for any given conjugation method therefore needs to be tested in advance. We recommend diluting the biomolecules in LowCross® HRP-Stab only after conjugation.

Please note that high protein concentrations and/or microbial contamination may reduce the effectiveness of the preservative. If you add antibodies/conjugates for storage in a non-sterile manner and you are unsure about potential microbial contamination, it may be beneficial to add additional preservative or also antibiotics.

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