LowCross-HRP® *(Cat. No. CR200-LS)*

Assay diluent for long-term storage of HRP conjugates and for minimizing nonspecific binding, cross-reactivities and matrix effects in immunoassays

Storage:	2 - 8 °C (Do not freeze)
pH-value at 19.0 - 21.0 °C:	7.3 ± 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

Instructions for use

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

Conjugates can be diluted and stored directly in *LowCross-HRP®* at end concentrations. Typical conjugate concentrations are in the range of 40 to 500 ng/ml. *LowCross-HRP®* 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®* for the respective assay and the respective conjugates must be tested by the user.

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®*. If *LowCross-HRP®* is used in immunodiagnostic kits, the shelf life must be validated according to the applicable regulatory requirements for diagnostics.

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

Note: CANDOR products are shipped at ambient temperature. Stability studies have demonstrated that prolonged exposure to ambient conditions does not affect product quality.

LowCross-HRP and LowCross are registered trademarks of CANDOR Bioscience.