



AP-Defender (5x)

(catalog no. 336)

Concentrated diluent for long-term storage of AP-conjugates. Animal- and protein-free.

Storage:	2 – 8 °C
pH-value at 19.0 – 21.0 °C:	6.0 ± 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

Application

Dilution of Alkaline Phosphatase (AP)-conjugated antibodies, proteins and biomolecules, as well as free AP for long-term storage in solution at non-freezing temperatures, ensuring stability and functionality for subsequent use in immunoassays and related analytical applications.

Instructions for use

To prepare a working solution, *AP-Defender (5x)* must be diluted 1:5 into purified water or another buffer - e.g. *Sample Buffer protein-free* (CR305) - before use (1 part of *AP-Defender (5x)* + 4 parts of diluent). Please shake *AP-Defender (5x)* thoroughly prior to dilution

AP-conjugates can be diluted and stored directly in the working solution of *AP-Defender (5x)*. Typical conjugate concentrations in the final solution range from 100 to 1000 ng/ml. Once diluted in a suitable buffer, *AP-Defender (5x)* can directly be used as assay buffer in immunoassays. *AP-Defender (5x)* is designed for the storage of conjugates in solution at non-freezing temperatures (i.e. above 0 °C).

Suitability of *AP-Defender (5x)* for a specific assay must be tested by the user.

Stability data of one AP-conjugate cannot be directly transferred to other conjugates. Each conjugate must be tested for its individual shelf-life in the respective *AP-Defender (5x)* dilution. If *AP-Defender (5x)* is used in immunodiagnostic kits, the shelf life must be validated according to the applicable regulatory requirements for diagnostics.

AP-Defender (5x) contains components that may interfere with commonly used conjugation methods, such as techniques targeting primary amines and sulfhydryl groups. Suitability for any given conjugation method must be tested in advance. We recommend diluting biomolecules in *AP-Defender* dilutions only **after** conjugation.

If background or false-positive signals occur - e.g. due to cross-reactivities, matrix effects, or HAMA - we recommend diluting *AP-Defender (5x)* into *LowCross-Buffer® protein-free* (CR300).

AP-Defender (5x) contains the preservative CMIT/MIT but is **not** sterile. To guarantee optimal stability, the respective diluent should contain appropriate preservative levels. Please note that high protein concentrations and/or microbial contamination may reduce the effectiveness of the preservative. If antibodies/conjugates are added for storage in a non-sterile manner and microbial contamination is suspected, higher-than-usual preservative concentrations may be required.

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

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