kementec

Effect Diluent

BUFFERS & STABILIZERS

Sample Diluent & RF/HAMA Blocker
Low cat. no. 7070
Medium cat. no. 7080
High cat. no. 7090
Kit (all 3) cat. no. 7095

Product Characteristics
Effect Diluents are effective buffers free of any animal components.
They can be used for the dilution of serum, plasma, blood, stool or urine samples, as well as the dilution of primary and secondary antibodies.
Effect Diluents efficiently minimize matrix effects, cross-reactions and unspecific binding in immunoassays like ELISA, Western blotting, Immunohistochemistry, protein arrays and immuno-PCR.

The Effect Diluents are used alternatively to the standard sample or antibody dilution buffers:

- In ELISA for the dilution of specimen and detection antibodies.
- In Western Blotting for the dilution of primary and secondary antibodies.
- In Protein arrays for the dilution of specimen and detection antibodies.
- In immuno-PCR as a washing buffer.

Three versions of the diluent are offered: Low, Medium and High for optimal discrimination between specific and unspecific reaction and for minimizing strong interference effects e.g., by RFs (rheumatoid factors), HAMAs (human-a-mouse Abs) or by endogenous components that bind and mask the analyte.

Composition & Properties
The Effect Diluents contain no animal components and are free of phosphates.

Working Procedure
1. Mix thoroughly prior to use
2. Dilution recommendations:
   a. Dilute antibodies according to the instruction of the antibody
   b. Dilution of the specimen is recommended at 1:2 or higher

Tips & Tricks
- Effect Diluents must not be considered as blocking buffers. Recommended blocking buffers are: Synthetic Blocking Buffer, ELISA (cat. no. 4520), Synthetic Blocking Buffer, Blotting (cat. no. 4650) and WellChampion (cat. no. 4900) for plate blocking and stabilization (preparation of pre-coated plates).
- Complex sample matrices, such as serum and plasma, may contain interfering factors that affect the ability of the assay to accurately quantify the target analyte. Strong interferences are often caused by RFs and HAMAs. These matrix effects can cause high background in the negative control or false negatives in the sample measurements. To reduce this effect the samples can be diluted in the Effect Diluents.

Handling & Storage
- Store solution 2-8 °C or -15 to -30 °C (tolerates freezing and thawing cycles)

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