

Sample X-tra

BUFFERS & STABILIZERS

Sample Dilution Buffer

Cat. no. 5350

Product Characteristics

Sample X-tra is a sample dilution buffer for use in immunoassays such as ELISA, EIA, RIA, Protein Arrays, Western Blotting and Immuno-PCR. The buffer is used for dilution of biological matrices (like serum and plasma) as well as assay standards for generating the standard curve. In an ELISA, the buffer minimizes nonspecific interactions between the matrix proteins and the surface of the plate resulting in an improved signal-to-noise ratio.

Composition & Properties

Sample X-tra is a ready-to-use buffer containing appropriate stabilizing components and is formulated without any phosphate making it suitable for dilution of HRP/AP conjugates. The buffer does not contain azide, mercury or other toxic chemicals and is free from animal components.

Working Procedure

Mix thoroughly prior to use. Optimal Dilution factors need to be determined for each specific assay.

1. In order to determine the optimal dilution factor using Sample X-tra, make a series of dilutions of specimens and standards with Sample X-tra. Run the assay and choose the optimal dilution.
2. When the optimal dilution factor has been determined, assays can be run accordingly. Add the determined volume of Sample X-tra to the microwells or tubes.
3. Add specimens in the correct determined ratio.
4. Run the assay as usual.

Tips & Tricks

- In rare cases insufficient reduction of unspecific bindings may occur (e.g. food allergy testing). Protein-StabilPLUS (cat. no. 4720) is recommended in these cases.
- Complex sample matrices, such as serum and plasma, may contain interfering factors like RF (rheumatoid factors) and HAMAs (human-a-mouse Abs), which affect the assay, causing high background in the negative control or false negatives in the sample measurement. Effect Diluents (cat. no. 5070/5080/5090) are recommended in such cases.

Handling & Storage

- Store solution at 2-8 °C.



Our Immunoassay Solutions are eco-friendly, creating a healthy work environment and preserving natural resources, while helping our customers fulfill significant regulatory requirements. **We call it ECO-TEK.**