

# General Serum Diluent, 2X

## A stable protein matrix for dilution of serum and other aqueous-based biological samples.

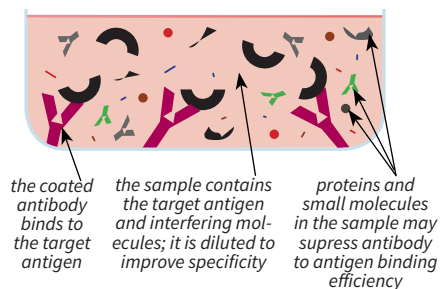
General Serum Diluent, 2X is provided as a 2X concentrate. Dilute 1:2 prior to use.

General Serum Diluent is formulated to provide a stable, protein-friendly environment for dilution of serum, cell culture, ascites, urine, and other aqueous-based biological samples for evaluation within an ELISA format. It can serve as an excellent generic matrix in which to dilute antigen standards when preparing standard curves within antibody-sandwich formats. It also provides an excellent serum dilution medium for antigen-down ELISAs in the assessment of a humoral immune response to a particular disease state or immunization regimen.

Sample diluents are used to dilute samples into the functional range of the assay and to create the standard curve. Due to the finite binding capacity of the plate well-coated proteins (e.g., antibodies, antigens), highly concentrated samples must be diluted in order to obtain absorbance readings within the sensitivity detection limits of the instrument. Properly formulated sample diluents will also reduce background noise associated with non-specific bridging of signal-generating conjugates to the plate well surface.

General Serum Diluent provides a mammalian protein-buffered, neutral pH environment that is highly compatible with antibody-antigen interactions. Inclusion of a protein component helps minimize the degree of non-specific IgG adsorption onto coated and blocked ELISA plate wells during antigen-down screening of serum or plasma samples. Antimicrobial agents allow for room temperature bench-top use and extensive storage stability at 2-8°C.

### Dilute samples within the detection limits of the ELISA



## GENERAL SERUM DILUENT, 2X

Size	Catalog #
1 L	#6709

### INSTRUCTIONS:

1. Prepare 1X working strength sample diluent by diluting 1:2 in diH<sub>2</sub>O. Add 1 part General Serum Diluent, 2X to 1 part diH<sub>2</sub>O. Mix well.
2. Prepare standards and samples in General Serum Diluent.
3. Generally, serum samples should be diluted at least 1:50 in order to minimize backgrounds caused by non-specific antibody binding. Highly concentrated samples may need to be diluted 1:1,000 or more.
4. To dilute the sample 1:100, add 1 part sample to 99 parts General Serum Diluent. For example, add 10 µL sample to 990 µL General Serum Diluent for a total of 1,000 µL.
5. Once diluted, run the assay according to the specific ELISA protocol.
6. Analyze the data. If the samples were diluted, the dilution factors must be considered when calculating their values.

For more ELISA protocols and information, please visit [www.immunochemistry.com](http://www.immunochemistry.com).

### SPECIFICATIONS:

- Clear to light yellow liquid
- 2X concentrate
- pH 7.2-7.6

### STORAGE:

- 24 months at 2-8°C
- 1 week at room temperature

### SAFETY & USAGE:

- Includes ≤ 0.2% sodium azide as an antimicrobial agent.
- SDS available at [immunochemistry.com](http://immunochemistry.com)
- Product intended for research use or for further manufacturing into *in vitro* diagnostics reagents only.
- Not intended for use in human or therapeutic purposes.



### BRIGHT MINDS, BRIGHT SOLUTIONS.™

ImmunoChemistry Technologies, LLC gratefully acknowledges the significant contributions made by one of its founders, Brian W. Lee, Ph.D in the development of this product, including the creation and illustration of its strategy and protocol.

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