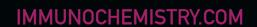


# ELISA REAGENTS PRODUCT ADVANTAGES

**Bright Minds, Bright Solutions™** 



## 2 | ELISA REAGENTS PRODUCT ADVANTAGES

CATEGORY	PRODUCT	CATALOG#	DESCRIPTION	ADVANTAGES
COATING BUFFERS	Antibody Coating Buffer, 5X	• 644 • 645 • 646 • 658	Maximizes the adsorption of antibodies onto plates and stabilizes the three-dimensional structure for optimal performance	Saves reagents, enhances signal, and extends shelf life of coated plates
	Antigen Coating Buffer, 5X	• 6247 • 6248 • 6249 • 6250	Maximizes the adsorption of antigens onto plates and stabilizes their structure for optimal performance	Saves reagents, enhances signal, and extends shelf life of coated plates
	Phosphate Buffered Saline, 10X	•6157 •6158 •6159 •6160	Well-tested liquid formulation of buffers and salts designed to effectively balance pH and ionic strength without disrupting protein binding interactions. It may be used as a base to create custom-made ELISA buffers or for other applications in the lab, such as washing cells, protein dialysis, or running Protein A or Protein G columns.	Saves time, reduces waste, and decreases variability
BLOCKING BUFFERS	Alternative Block ELISA Blocking Buffer	• 6299 • 6300 • 6301 • 6302	Alternative Block ELISA Blocking Buffer provides superior background-blocking performance to eliminate interference and minimize background noise on ELISA formats without the use of conventional cross-reactive protein additives.	Provides superior background- blocking performance to eliminate interference and minimize background noise; Long-term stabilizing environment for dried antigen or antibody coat protein
	General Block ELISA Blocking Buffer	• 632 • 633 • 640 • 659	Contains a mammalian protein blocking agent suitable for most antibody capture ELISA formats and peptide or protein antigendown ELISA formats. This blocking buffer provides a long-term stabilizing environment for dried antigen or antibody coat proteins and minimizes nonspecific binding interactions during the assay process.	Long-term stabilizing environment for dried antigen or antibody coat proteins and minimizes nonspecific binding interactions
	Monster Block ELISA Blocking Buffer	• 6295 • 6296 • 6297 • 6298	Monster Block ELISA Blocking Buffer is a high strength blocking buffer designed to address high background problems in antigendown and sandwich immunoassays. Using a heterogenous mixture of non-mammalian blocking agents, Monster Block reduces non-specific binding and stabilizes proteins.	Minimizes nonspecific binding interactions in ELISAs with high background problems; Long-term stabilizing environment for dried antigen or antibody coat proteins
	Neptune Block ELISA Blocking Buffer	• 62 • 63 • 64 • 660	Neptune Block Blocking Buffer is non-mammalian and designed primarily for antigen-down ELISA formats as well as sandwich assays with high background problems. This buffer is particularly useful when working with human and other mammalian serum samples as it works to reduce interactions between sample and blocking molecules.	Minimizes nonspecific binding interactions in ELISAs with high background problems; Long-term stabilizing environment for dried antigen or antibody coat proteins
	Phosph-Free Block ELISA Blocking Buffer	• 6262 • 6263 • 6264 • 6265	Phosph-Free Block ELISA Blocking Buffer is a novel non-protein blocking formulation designed to eliminate interference and nonspecific background noise associated with antibody-coated ELISA formats and sandwich ELISAs. Phosph-Free Block is formulated for ELISAs using alkaline phosphatase detection or for assays with ultra-sensitivity requirements.	Superior background performance without the use of conventional cross-reactive protein additives; Long-term stabilizing environment for dried antigen or antibody coat protein
	SynBlock ELISA Blocking Buffer	• 641 • 642 • 643 • 661	Protein-free blocking formulation used to eliminate interference and nonspecific background noise associated with antibody-coated ELISA formats and sandwich ELISAs.	Superior background-blocking performance without the use of conventional cross-reactive protein additives; Long-term stabilizing environment for dried antigen or antibody coat protein
	Block Buffer Optimization Pack	• 957	Provides five Blocking Buffer formulations (Alternative Block, General Block, Monster Block, Neptune Block, and SynBlock) in this economical pack to screen for the best blocking buffer for a particular assay.	Economical, efficient, and quick method for optimizing signal-to- noise ratio and selecting the best Block Buffer

CATEGORY	PRODUCT	CATALOG#	DESCRIPTION	ADVANTAGES
SAMPLE DILUENTS	General Serum Diluent	• 647 • 648 • 649 • 675	General Serum Diluent is formulated for diluting goat, rabbit, mouse, avian, and human sera, as well as mouse ascites fluid and cell culture media, for testing in sandwich ELISA configurations.	Can be used for dilution of many types of serum samples, including mammalian and chicken, in sandwich and antigen-down ELISA formats
	Neptune Sample Diluent	•6124 •6125 •6126 •6127	Neptune Sample Diluent is highly recommended for use with serum or plasma samples from mouse, porcine or bovine sources in an antigen-down ELISA format. This non-mammalian protein-containing solution can also be used for human or other mammalian plasma samples in antibody-sandwich ELISAs.	Dilutes samples into the functional range of the assay; Minimizes nonspecific IgG adsorption during antigen-down screening of serum or plasma samples
	Plasma Sample Diluent	• 694 • 695 • 696 • 697	Plasma Sample Diluent is formulated specifically for use with plasma samples being tested in an antigen-down ELISA format. This novel mammalian-protein-buffered formulation provides an assay environment that minimizes non-specific binding while maintaining proper ionic strength and pH for efficient antibodyantigen interaction. Plasma Sample Diluent also inhibits thrombin activity (clotting) and complement activity during the plasma sample incubation period.	Dilutes samples into the functional range of the assay; Minimizes nonspecific IgG adsorption during antigen-down screening of serum or plasma samples; Reduces interference from complement and thrombin
	Protein-Free Sample Diluent	• 6702 • 6703 • 6704 • 6707	Protein-Free Sample Diluent is a protein-free matrix used for the dilution of biological samples (e.g., serum, cell culture media) into the useful range of antibody-sandwich or antigen-down ELISA format assays. This unique buffer contains a heterogeneous mixture of proprietary molecules that help reduce background noise associated with non-specific bridging of signal-generating conjugates to the plate well surface.	Dilutes samples into the functional range of the assay; Minimizes nonspecific IgG adsorption during antigen-down screening of serum or plasma samples; Reduces non-specific conjugate bridging; Highly compatible with antibodyantigen interactions; Protein-Free
	Sample Diluent Optimization Pack	• 959	Sample Diluent Optimization Pack provides four 100 mL bottles of Sample Diluent formulations (General Serum Diluent, Neptune Sample Diluent, Plasma Sample Diluent, and Protein-Free Sample Diluent) for an economical and fast method to screen for the best Sample Diluent for a particular assay.	Economical, efficient, and quick method for selecting the best Sample Diluent
ASSAY DILUENTS	Antigen-Down Assay Diluent	• 629 • 630 • 631 • 674	Antigen-Down Assay Diluent is formulated for use with serum and plasma samples tested in antigen-down ELISA formats. Proprietary additives have been included to reduce the level of nonspecific IgG adsorption to antigen-coated and blocked ELISA well surfaces, as well as enhancing the specific anti-analyte/antigen-antibody signal without denaturing the plate adsorbed antigen molecules.	Reduces nonspecific IgG adsorption, enhances specific anti-analyte/antigen-antibody signal
	General Assay Diluent	•620 •621 •622 •671	General Assay Diluent is a mammalian protein-based ELISA additive used to equalize the sample and standard matrices for a more accurate result. Large differences in matrix complexity environment between standard curve and sample wells are the main cause for target analyte under-recovery problems in sandwich ELISA analysis.	Equalizes matrix complexity disparity issues, reduces nonspecific interactions between sample proteins and the plate, and reduces interference from complement and thrombin in serum and plasma samples

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ASSAY DILUENTS (CONT.)	IgM-Reducing Assay Diluent	• 623 • 624 • 625 • 672	IgM-Reducing Assay Diluent is a specially formulated additive to address IgM-mediated conjugate bridging interference in problematic serum and plasma samples tested in antibody sandwich ELISA formats. IgM-Reducing Assay Diluent can be added to standard curve/calibrator and serum/plasma sample wells to help equalize matrix complexity disparity issues.	Minimizes nonspecific binding of conjugate by reducing buildup of sticky IgM on the plate well surface and capture antibody; Equalizes matrix complexity disparity issues, reduces nonspecific interactions between sample proteins and the plate, and reduces interference from complement and thrombin in serum and plasma samples
	Neptune Assay Diluent	• 626 • 627 • 628 • 673	Neptune Assay Diluent is formulated to address nonspecific binding issues with human, porcine, or bovine serum or plasma samples tested in antigen-down ELISA formats. This non-mammalian assay additive works to enhance the specific anti-analyte/antigen antibody signal without denaturing the plate-adsorbed antigen molecules.	Equalizes matrix complexity disparity issues, reduces nonspecific interactions between sample proteins and the plate, and reduces interference from complement and thrombin in serum and plasma samples
	Assay Diluent Optimization Pack	• 958	Assay Diluent Optimization Pack provides four 100 mL bottles of Assay Diluent formulations (Antigen-Down Assay Diluent, General Assay Diluent, IgM-Reducing Assay Diluent, and Neptune Assay Diluent) to quickly screen for the best Assay Diluent for a particular assay.	Offers an economical method of addressing matrix effects and optimizing signal-to-noise ratio in ELISA development projects
WASH BUFFER	ELISA Wash Buffer, 10X	•650 •651 •652 •676	Effectively rinses microtiter plates between reagent addition steps of an ELISA to remove signal-altering debris while preserving assay components.	Stabile on the benchtop for use over 12 months, and helps researchers to minimize background and achieve a stronger signal
	Phosphate Buffered Saline, 10X	•6157 •6158 •6159 •6160	Well-tested liquid formulation of buffers and salts designed to effectively balance pH without disrupting protein binding interactions. It may be used as a base to create custom-made ELISA buffers or for other applications in the lab, such as washing cells, protein dialysis, or running Protein A or Protein G columns.	Saves time, reduces waste, and decreases variability
	Alkaline Phosphatase Conjugate Stabilizer, 1X	•6270 •6271 •6272 •6273 •6274	Alkaline Phosphatase Conjugate Stabilizer is a proprietary formulation to stabilize and dilute alkaline phosphatase conjugates for use in ELISA, Western blot, and other immunoassay applications.	Minimizes nonspecific interactions and reduces background; Enhances conjugate binding to target antigen or antibody; Stabilizes alkaline phosphatase enzyme and immunoglobulin components of the AP-IgG conjugate complex for long-term storage
CONJUGATE STABILIZERS	HRP Conjugate Stabilizer, Mammalian, 1X	• 6350 • 6706 • 6351 • 6352	Preserve activity of HRP conjugates and reduce background signal in immunoassays using HRP detection systems. HRP Conjugate Stabilizer is used to preserve concentrated stock conjugates, reconstitute lyophilized conjugates, and dilute antibody-HRP conjugates to their useful working titer in ELISAs and immunology-based techniques.	Inhibits nonspecific binding and background noise; Enhances conjugate binding to target antigen or antibody; Stabilizes horseradish peroxidase enzyme and immunoglobulin components of the HRP-IgG conjugate complex for long-term storage

CATEGORY	PRODUCT	CATALOG#	DESCRIPTION	ADVANTAGES
CONJUGATE STABILIZERS (CONT.)	Neptune HRP Conjugate Stabilizer, Non-Mammalian, 1X	• 6347 • 6705 • 6348 • 6349	Preserve activity of HRP conjugates and reduce background signal. Neptune HRP Conjugate Stabilizer is used to preserve concentrated stock conjugates, reconstitute lyophilized conjugates, and dilute antibody-HRP conjugates to their useful working titer in ELISAs and immunology-based techniques. This product is best for immunoassays using anti-IgG HRP conjugates within traditional antigen-down or antibody sandwich ELISA formats.	Inhibits nonspecific binding and background noise; Enhances conjugate binding to target antigen or antibody; Stabilizes horseradish peroxidase enzyme and immunoglobulin components of the HRP-IgG conjugate complex for long-term storage
	Antigen-Down HRP Conjugate Stabilizer, 5X	•6169 •6102 •6103 •6104 •6105	Antigen-Down HRP Conjugate Stabilizer is a unique formulation specifically designed for use with anti-IgG-HRP conjugates. This stabilizing diluent contains proprietary non-mammalian protein additives that will not interfere with anti-IgG-HRP conjugates used in antigen-down immunoassays or sandwich ELISA formats. These additives provide additional structural stability to the IgG-HRP conjugate protein complex. Antigen-Down HRP Conjugate Stabilizer will also inhibit conjugate binding to nonspecific serum proteins bound to the plate, reducing conjugate bridging on the plate surface and background noise.	Inhibits nonspecific binding and background noise; Enhances conjugate binding to target antigen or antibody; Stabilizes horseradish peroxidase enzyme and immunoglobulin components of the HRP-IgG conjugate complex for long-term storage
	HRP Conjugate Stock Stabilizer, 5X	• 6173 • 667 • 668 • 669 • 670	HRP Conjugate Stock Stabilizer is best for users who desire an all-purpose HRP conjugate diluent and HRP stabilizer.	Serves as a base to add specialized components to address non-specific binding and interference, also serves as an excellent concentrated buffer to stabilize HRP conjugates for long-term storage; Enhances conjugate binding to target antigen or antibody
CONJUGATES	HRP Goat Anti-Human IgG Fc	• 6291	Goat Anti-Human IgG recognizes human IgG F(c) fragment. This HRP-conjugated secondary antibody was purified using antigen affinity chromatography and is suitable for ELISA and Western blotting techniques. The IgG component of this conjugate is specific for normal human IgG and is non-reactive with k or l light chains. The IgG-HRP conjugate contains between 2 and 4 HRP molecules per IgG molecule.	Versatile; Can be used with any primary Human IgG; Indirect detection allows for increased sensitivity due to signal amplification
	HRP Goat Anti-Mouse IgG Fc	• 6292	Goat Anti-Mouse IgG Fc recognizes mouse IgG F(c) fragment. This HRP-conjugated antibody was purified using antigen affinity techniques and is suitable for ELISA and Western blotting procedures. The IgG component of this antibody conjugate is specific for normal mouse IgG and is non-reactive with IgM or IgE serum proteins. The IgG-HRP conjugate contains between 2 and 4 HRP molecules per IgG molecule.	Versatile; Can be used with any primary Mouse IgG; Indirect detection allows for increased sensitivity due to signal amplification
	HRP Goat Anti-Rabbit IgG Fc	• 6293	Goat anti-Rabbit IgG recognizes rabbit IgG F(c) fragment. This HRP-conjugated secondary antibody was purified using antigen affinity techniques and is suitable for ELISA and Western blotting procedures. The IgG component of this HRP conjugate is specific for normal rabbit IgG and is non-reactive with other serum proteins. The IgG-HRP conjugate contains between 2 and 4 HRP molecules per IgG molecule.	Versatile; Can be used with any primary Rabbit IgG; Indirect detection allows for increased sensitivity due to signal amplification
	Conjugation-Ready HRP Maleimide	• 6294	Conjugation-Ready HRP Maleimide, contains maleimide-activated HRP to enable the creation of stable protein-HRP conjugates. This product allows you to save time with preactivated HRP, control HRP to target protein labeling ratios, and avoid HRP enzyme inactivation associated with periodate oxidation procedures. In addition, eliminate cross-linking events that lead to large protein aggregation and subsequent protein precipitation, which are common with glutaraldehyde techniques.	Activated HRP-Maleimide is stable for long-term storage, unlike same-day-use alternatives.

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CATEGORY	PRODUCT	CATALOG#	DESCRIPTION	ADVANTAGES
SUBSTRATES	BCIP/NBT 1-Component AP Membrane Substrate (SUBB)	• 6281	BCIP/NBT 1-Component AP Membrane Substrate (SUBB) is a ready-to-use formulation containing BCIP(5-bromo-4-Chloro-3'-Indolyphosphate p-Toluidine Salt) and NBT (Nitro-Blue Tetrazolium Chloride) in a mildly alkaline buffer. SUBB is useful for immunoblotting applications where alkaline phosphatase-conjugated molecules are used for detection. NBT serves as the oxidant and BCIP is the AP substrate. SUBB reacts with AP yielding a dark blue reaction product.	Optimized for membrane applications; One-component formulation; Stable for 3 years at 2-25°C
	pNPP 1-Component AP Microwell Substrate with Stabilizing Pellets (SUBP)	• 6279	pNPP 1-Component AP Microwell Substrate with Stabilizing Pellets is a ready-to-use alkaline phosphatase substrate formulation to detect alkaline phosphatase-conjugated molecules in ELISA and microwell assays.	Optimized for ELISA; One- component formulation with stabilizing pellets for long term stability; Stable for 3 years at 2-8°C
	TMB 1-Component HRP Membrane Substrate (SUBM)	• 6280	TMB 1-Component HRP Membrane Substrate is a ready-to-use formulation containing 3,3',5,5'-tetramethylbenzidine in a mildly acidic buffer. This TMB substrate is useful for immunoblotting applications where HRP-conjugated molecules are used for detection. TMB 1-Component HRP Membrane Substrate reacts with HRP yielding a dark blue reaction product.	Optimized for membrane applications; High signal-to-noise ratios; Stable for 2 years at room temperature and 4 years at 2-8°C
	TMB 1-Component HRP Microwell Substrate (SUBT)	• 6276 • 6337	TMB 1-Component HRP Microwell Substrate is a ready-to-use solution containing 3,3',5,5'-tetramethylbenzidine in a mildly acidic buffer that does not contain aprotic solvents. This substrate is ideal for use in all ELISAs where the target detection level is in the ng-pg/mL range and horseradish peroxidase (HRP) is the conjugated detection enzyme.	Optimized for ELISA; Ideal sensitivity for most ELISAs; High signal-to-noise ratios; Prolonged stability; Stable for 4 years at 2-8°C
	TMB Slow Kinetic 1-Component HRP Microwell Substrate (SUBK)	•6277	TMB Slow Kinetic 1-Component HRP Microwell Substrate is a ready-to-use solution containing 3,3',5,5'-tetramethylbenzidine in a mildly acidic buffer. This substrate is ideal for use in all ELISAs where the target detection level is in the µg-ng/mL range and horseradish peroxidase (HRP) is the conjugated detection enzyme.	Optimized for ELISA; Ideal sensitivity for ELISAs where the test samples contain high levels of the target molecule, for assays with long incubation periods (such as overnight incubations), and for assays that simply do not require a high level of sensitivity; Stable for 3.5 years at 2-8°C
	TMB Super Sensitive 1-Component HRP Microwell Substrate (SUBS)	• 627 • 6329	TMB Super Sensitive 1-Component HRP Microwell Substrate (SUBS) is a ready-to-use TMB substrate for microwell applications containing 3,3',5,5'-tetramethylbenzidine in a mildly acidic buffer. TMB Super Sensitive HRP Microwell Substrate is our most sensitive TMB buffer.	Optimized for ELISA; This faster kinetic TMB substrate is our most sensitive; Ideal for detecting very low levels of a target molecule, running highly diluted samples, amplifying the signal when using antibodies with low binding capacity, running samples that exhibit high steric hinderance, and shortening the incubation time of the assay; Stable for 2.5 years at 2-8°C

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CATEGORY	PRODUCT	CATALOG#	DESCRIPTION	ADVANTAGES
STOP SOLUTIONS	Stop Solution for AP Substrates (STOPP)	• 6284	Stop Solution for AP Substrates (STOPP) is a dry powder for use with pNPP-based colorimetric substrates. To use, reconstitute with DiH <sub>2</sub> O. STOPP is compatible with our pNPP-based alkaline phosphatase substrate, pNPP 1-Component AP Microwell Substrate.	Uniquely suitable for all endpoint ELISAs using an AP substrate for color development of an AP- conjugate; Read stopped (yellow, oxidized) substrate within 1 hour; Stable for 3 years at 2-25°C
	Stop Solution for TMB Substrates (STOPT)	•6282 •6343	Stop Solution for TMB Substrates (STOPT) is a ready-to-use liquid acidic stop solution suitable for use with our TMB substrates. TMB substrates react with peroxidase, yielding a soluble blue reaction product. When the TMB-peroxidase reaction is stopped using Stop Solution for TMB Substrates, the chromogen changes from blue to yellow.	Uniquely suitable for all endpoint ELISAs using a TMB substrate for color development; Read stopped (yellow, oxidized) substrate within 1 hour; Stable for 3 years at 25°C
ELISA	Antibody-Sandwich ELISA Development Kit	•9100	Assess assay feasibility and optimize ELISA performance parameters with ICT's Antibody-Sandwich ELISA Development Kit. A comprehensive ELISA development manual is supplied with protocols for assessing initial assay feasibility and optimizing ELISA performance parameters. This kit provides eight specially formulated ELISA buffers, 96-well plates, and plate storage materials to perform ten 96-well ELISA plate assays.	The Antibody-Sandwich ELISA Development Kit provides eight specially formulated ELISA Solutions, 96-well plates, and a detailed outline for the initial development and optimization of novel antibody-sandwich ELISA tests.
DEVELOPMENT KITS	Antigen-Down ELISA Development Kit	•9101	Assess assay feasibility and optimize ELISA performance parameters with ICT's Antigen-Down ELISA Development Kit. The Antigen-Down ELISA Development Kit provides seven specially formulated ELISA buffers, 96-well plates, and plate storage materials to perform ten 96-well ELISA plate assays, plus extra plates, sealing covers, and storage materials for ten additional assays. Includes a detailed guide to assist novice and experienced users alike in the development and optimization of antigen-down immunoassays.	The Antigen-Down ELISA Development Kit provides seven specially formulated ELISA Solutions, 96-well plates, and a detailed outline for the initial development and optimization of novel antigen-down ELISA tests.

<sup>\*</sup>Products are available from 100 mL – 10 L and also available for custom packaging.



# Four Great Brands, One Great Team



### aveslabs.com

**Aves Labs** is well known for its highly-cited chicken antibodies which are focused on neuroscience targets.



### antibodiesinc.com

Antibodies Inc boasts a catalog of 500 mouse monoclonal antibodies against critical neuroscience targets, including the entire NeuroMab portfolio.





### immunochemistry.com

**ImmunoChemistry Technologies** is your partner for cell viability assays, ELISA reagents, and immunoassay services.



### phosphosolutions.com

**PhosphoSolutions'** one-of-a-kind serum pooling initiative for polyclonal antibodies assures lot-to-lot consistency in their polyclonal products.



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