

# Lumi Super Tracker XL™

## Chemiluminescent Substrate (LUMXL™- Membrane / Blotting)

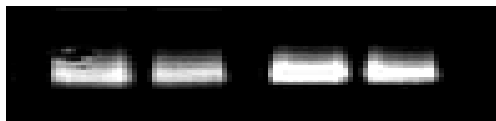
Developed specifically for HRP Blotting applications requiring extreme sensitivity. LUMI Super Tracker XL™ is the best chemiluminescent substrate on the market.

### Benefits of LUMI Super Tracker XL™

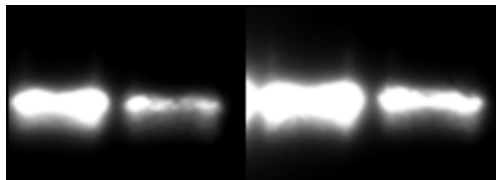
This substrate was developed to deliver world-class performance. Highest sensitivity, with very low background, and economical.

- Extreme low-Femto detection
- Best in class
- Lower backgrounds
- Highest signal to noise ratios
- Superior Stability
- 18 month shelf life
- Mixed working stock stable for several days

### Immuno4 LUMXL™ Is Superior to Competitor Products



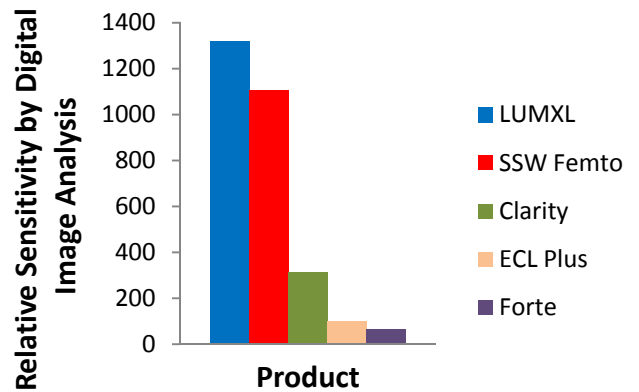
GE Select ECL      Immuno4 LUMXL



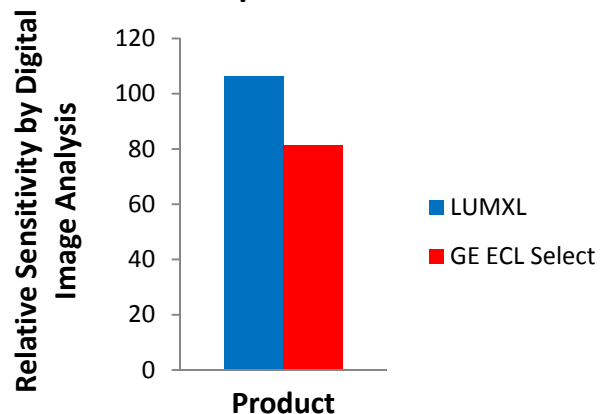
Thermo SuperSignal West Femto (L)  
Immuno4 LUMXL (R)

**Applications:** LUMXL™ is specially formulated for HRP membrane and blotting applications

### Immuno4 LUMXL™ Is Best in Class



### Immuno4 LUMXL™ Is Superior to Competitor Products



### Immuno4 Partnering

Immuno4 scientists have developed some of the best commercial detection and laboratory reagents on the market. The Immuno4 technical team can custom develop products for your needs.

- Flexible business to business interaction
- Custom formulation that meets YOUR assay needs
- Reliable manufacturing and quality control

## The Next Generation of Laboratory and Detection Reagents

# LUMI Super Tracker XL™ Extreme Low Femto Level Sensitivity

## Packaging

LUMXL is available in 50 mL, 100 mL, 200 mL, 500mL, 1 Liter kits.  
All materials are sold in custom or bulk quantities. Custom filling available.

Ordering Information	
Code	Description
LUMXL	Lumi Super Tracker XL™ Membrane / Blotting Chemiluminescent Peroxidase Substrate
LUSNM	Lumi Supernova™ Membrane / Blotting Chemiluminescent Peroxidase Substrate
LUMST	Lumi Super Tracker™ Membrane / Blotting Chemiluminescent Peroxidase Substrate
LUSST	Lumi Super Tracker™ Soluble / ELISA Chemiluminescent Peroxidase Substrate
LIABB	Lightning in a Bottle™ One Component Chemiluminescent Membrane / Blotting Peroxidase Substrate
HRPZR	Super Shield Peroxidase Conjugate Stabilizer™ (Bovine and Mammalian Protein Free)
ALPZR	Super Shield Alkaline Phosphatase Conjugate Stabilizer™ (Bovine and Mammalian Protein Free)
SSSZR	Super Shield Symulator™ Peroxidase Conjugate Stabilizer (Protein Free)
MACZR	Super Shield™ Macro™ Universal Stabilizer (Bovine and Mammalian Protein Free)
APNMC	Armor Plate™ Non Mammalian Protein Coat Block (Bovine and Mammalian Protein Free)
NMPCC	Armor Plate™ Concentrate Non Mammalian Protein Coat Block (5X) and Diluent (10X) (Bovine and Mammalian Protein Free)
APMPC	Armor Plate™ Milk Protein Coat Block (Bovine Serum Free)

# Lumi Supernova™

## Chemiluminescent Substrate (LUSNM™- Membrane / Blotting)

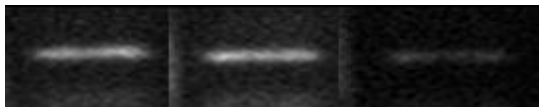
Developed specifically for HRP Blotting applications requiring high performance with economical affordability. LUMI Supernova™ is best in its class of chemiluminescent substrates.

### Benefits of LUMI Supernova™

This substrate was developed to deliver high performance and affordability. High sensitivity, with very low background, and economical.

- Low Pico to Mid Femto detection
- Best in its class
- Low backgrounds
- High signal to noise ratios
- Superior Stability
- 24 month shelf life
- Mixed working stock stable for several days

### Immuno4 LUSNM™ Is Superior to Competitor Products In Its Class



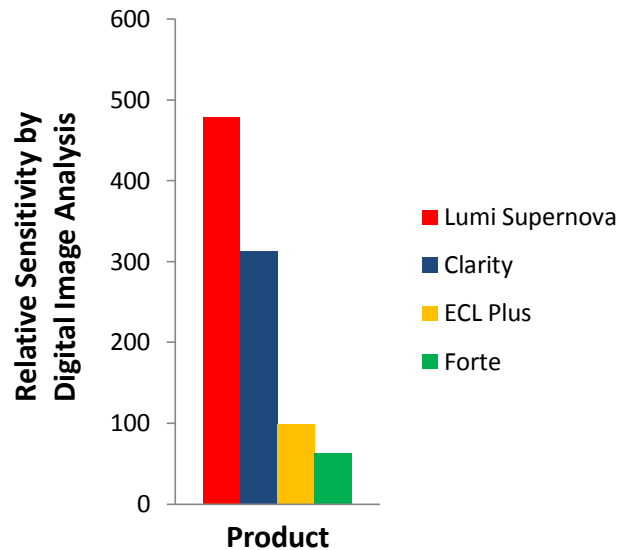
Immuno4 Lumi Supernova (Left)  
Mid Femto Level Competitor (Middle)  
Super ECL Competitor (Right)

### Immuno4 LUSNM™ Shows Notable Performance Against the Top Performer



Immuno4 LUMXL (L) Immuno4 LUSNM (R)

### Immuno4 LUMSN™ Is Superior to Competitor Products in its Class



### Immuno4 Partnering

Immuno4 scientists have developed some of the best commercial detection and laboratory reagents on the market. The Immuno4 technical team can custom develop products for your needs.

- Flexible business to business interaction
- Custom formulation that meets YOUR assay needs
- Reliable manufacturing and quality control

### Applications

LUMSN™ is specially formulated for HRP membrane and blotting applications

## The Next Generation of Laboratory and Detection Reagents

# Lumi Supernova™

Economical High Performance

## Packaging

LUSNM is available in 100 mL, 200 mL, 500mL, 1 Liter kits. All materials are sold in custom or bulk quantities. Custom filling available.

Ordering Information	
Code	Description
LUMXL	Lumi Super Tracker XL™ Membrane / Blotting Chemiluminescent Peroxidase Substrate
LUSNM	Lumi Supernova™ Membrane / Blotting Chemiluminescent Peroxidase Substrate
LUMST	Lumi Super Tracker™ Membrane / Blotting Chemiluminescent Peroxidase Substrate
LUSST	Lumi Super Tracker™ Soluble / ELISA Chemiluminescent Peroxidase Substrate
LIABB	Lightning in a Bottle™ One Component Chemiluminescent Membrane / Blotting Peroxidase Substrate
HRPZR	Super Shield Peroxidase Conjugate Stabilizer™ (Bovine and Mammalian Protein Free)
ALPZR	Super Shield Alkaline Phosphatase Conjugate Stabilizer™ (Bovine and Mammalian Protein Free)
SSSZR	Super Shield Simulator™ Peroxidase Conjugate Stabilizer (Protein Free)
MACZR	Super Shield™ Macro™ Universal Stabilizer (Bovine and Mammalian Protein Free)
APNMC	Armor Plate™ Non Mammalian Protein Coat Block (Bovine and Mammalian Protein Free)
NMPCC	Armor Plate™ Concentrate Non Mammalian Protein Coat Block (5X) and Diluent (10X) (Bovine and Mammalian Protein Free)
APMPC	Armor Plate™ Milk Protein Coat Block (Bovine Serum Free)



125 Airport Drive, Unit 14  
 Westminster, MD 21157  
 Phone: 443-821-3504  
[www.Immuno4.com](http://www.Immuno4.com)

# Super Shield™ HRP Conjugate Stabilizer

## Bovine and Mammalian Protein Free Stabilizer (HRPZR™-One Component)

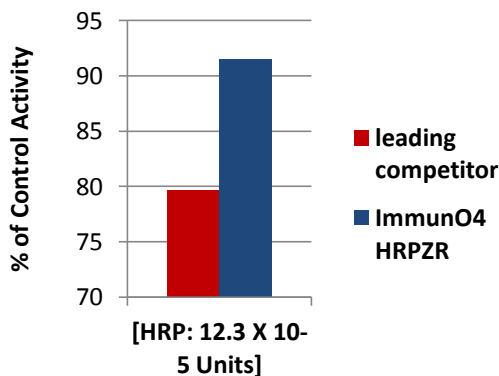
Mammalian Protein Free Stabilizer and Diluent; Preserves and stabilizes the activity of HRP and AP conjugates used in immunoassays and molecular assays.

### Benefits of Super Shield™ HRP

This stabilizer was developed to maximize the life of your HRP and AP conjugates while eliminating non-specific protein interactions.

- No Mammalian proteins
- Minimizes background interactions and issues
- Eliminates BSE regulatory concerns
- ImmunO<sub>4</sub> HRPZR™ synergizes with ImmunO<sub>4</sub> APNMC™ Coat Block reagent to further improve unwanted non specific binding
- Stabilizes a variety of HRP and AP conjugates, when diluted as working solutions
- Room temperature stable reagent
- Stable through freeze-thaw cycles
- Superior HRP and protein stabilization / diluent

**Accelerated Stability of HRP incubated in Super Shield vs Competitor Stabilizer - Two Weeks at 50° C**



### ImmunO<sub>4</sub> Partnering

ImmunO<sub>4</sub> scientists have developed some of the best commercial detection and laboratory reagents on the market. The ImmunO<sub>4</sub> technical team can custom develop products for your needs.

- Flexible business to business interaction
- Custom formulation that meets YOUR assay needs
- Reliable manufacturing and quality control

### Applications

HRPZR™ is specially formulated for stabilize the activity of HRP and AP conjugates. HRPZR™ also preserves proteins in various other assay systems. It is often used in ELISA, Western Blot, Southern/Northern Blots, and lateral flow. Super Shield can be used directly as an assay buffer. The product is supplied as a 1X, one component liquid, ready to use formula. Antimicrobial agents are included to retard bacterial growth.

## The Next Generation of Laboratory and Detection Reagents

# Super Shield™ Stabilizer

Superior Protein Stabilizer

## Packaging

HRPZR is available in 100 mL, 200 mL and 1L volumes. All materials are sold in custom or bulk quantities. Custom filling available.

### Ordering Information

Code	Description
LUMXL	Lumi Super Tracker XL™ Membrane / Blotting Chemiluminescent Peroxidase Substrate
LUSNM	Lumi Supernova™ Membrane / Blotting Chemiluminescent Peroxidase Substrate
LUMST	Lumi Super Tracker™ Membrane / Blotting Chemiluminescent Peroxidase Substrate
LUSST	Lumi Super Tracker™ Soluble / ELISA Chemiluminescent Peroxidase Substrate
LIABB	Lightning in a Bottle™ One Component Chemiluminescent Membrane / Blotting Peroxidase Substrate
HRPZR	Super Shield Peroxidase Conjugate Stabilizer™ (Bovine and Mammalian Protein Free)
ALPZR	Super Shield Alkaline Phosphatase Conjugate Stabilizer™ (Bovine and Mammalian Protein Free)
SSSZR	Super Shield Symulator™ Peroxidase Conjugate Stabilizer (Protein Free)
MACZR	Super Shield™ Macro™ Universal Stabilizer (Bovine and Mammalian Protein Free)
APNMC	Armor Plate™ Non Mammalian Protein Coat Block (Bovine and Mammalian Protein Free)
NMPCC	Armor Plate™ Concentrate Non Mammalian Protein Coat Block (5X) and Diluent (10X) (Bovine and Mammalian Protein Free)
APMPC	Armor Plate™ Milk Protein Coat Block (Bovine Serum Free)



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Phone: 443-821-3504  
[www.ImmunO4.com](http://www.ImmunO4.com)

# Super Shield™ Macro™ Universal Stabilizer Bovine and Mammalian Protein Free (MACZR™ - One Component)

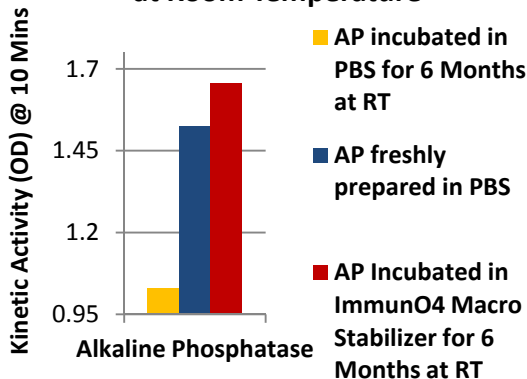
All-Purpose Protein, Biomolecule and Analyte Stabilizer / Diluent; Preserves and stabilizes the activity of various Biomolecules used in immunoassays and molecular assays.

## Benefits of Super Shield™ Macro™

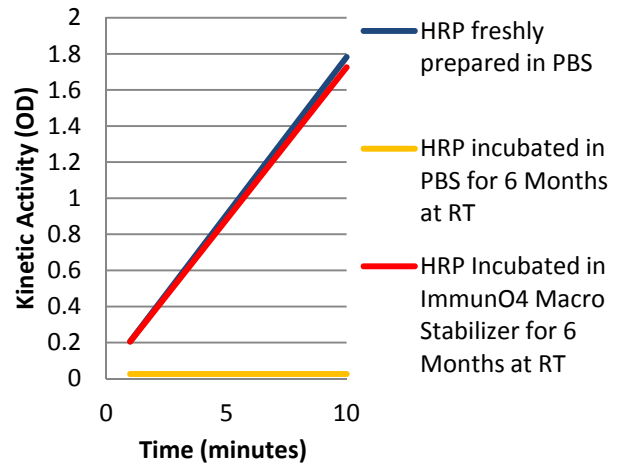
This universal stabilizer was developed to maximize the life of various biomolecules while eliminating non-specific protein interactions.

- No Mammalian proteins
- Minimizes background interactions and issues
- Eliminates BSE regulatory concerns
- ImmunO<sub>4</sub> MACZR™ is compatible and works well with ImmunO<sub>4</sub> Coat-Block reagents
- Can be used as a stabilizer, buffer and diluent
- Room temperature stable reagent
- Stable through freeze-thaw cycles
- Superior all-purpose stabilizer

**Real Time Stability of AP Incubated in Super Shield Macro Stabilizer for 6 Months at Room Temperature**



**Real Time Stability of Peroxidase Incubated in Super Shield Macro Stabilizer for 6 Months at Room Temperature**



## ImmunO<sub>4</sub> Partnering

ImmunO<sub>4</sub> scientists have developed some of the best commercial detection and laboratory reagents on the market. The ImmunO<sub>4</sub> technical team can custom develop products for your needs.

- Flexible business to business interaction
- Custom formulation that meets YOUR assay needs
- Reliable manufacturing and quality control

## Applications

MACZR™ is specially formulated to stabilize the activity of various Proteins and Biomolecules. MACZR™ preserves biomolecules in various assay systems. It is often used in ELISA, Western Blot, Southern/Northern Blots, and lateral flow. Super Shield Macro can be used directly as an assay buffer. The product is supplied as a 1X, one component liquid, ready to use formula. Antimicrobial agents are included to retard bacterial growth.

# The Next Generation of Laboratory and Detection Reagents

# Super Shield™ Macro™ Universal Stabilizer

Superior All-Purpose Stabilizer

## Packaging

MACZR is available in 100 mL, 200 mL and 1L volumes. All materials are sold in custom or bulk quantities. Custom filling available.

Ordering Information	
Code	Description
LUMXL	Lumi Super Tracker XL™ Membrane / Blotting Chemiluminescent Peroxidase Substrate
LUSNM	Lumi Supernova™ Membrane / Blotting Chemiluminescent Peroxidase Substrate
LUMST	Lumi Super Tracker™ Membrane / Blotting Chemiluminescent Peroxidase Substrate
LUSST	Lumi Super Tracker™ Soluble / ELISA Chemiluminescent Peroxidase Substrate
LIABB	Lightning in a Bottle™ One Component Chemiluminescent Membrane / Blotting Peroxidase Substrate
HRPZR	Super Shield Peroxidase Conjugate Stabilizer™ (Bovine and Mammalian Protein Free)
ALPZR	Super Shield Alkaline Phosphatase Conjugate Stabilizer™ (Bovine and Mammalian Protein Free)
SSSZR	Super Shield Simulator™ Peroxidase Conjugate Stabilizer (Protein Free)
MACZR	Super Shield™ Macro™ Universal Stabilizer (Bovine and Mammalian Protein Free)
APNMC	Armor Plate™ Non Mammalian Protein Coat Block (Bovine and Mammalian Protein Free)
NMPCC	Armor Plate™ Concentrate Non Mammalian Protein Coat Block (5X) and Diluent (10X) (Bovine and Mammalian Protein Free)
APMPC	Armor Plate™ Milk Protein Coat Block (Bovine Serum Free)



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[www.ImmunO4.com](http://www.ImmunO4.com)



# Lightning in a Bottle™

## One Component HRP Chemiluminescent Substrate (LIABB™- Membrane / Blotting)

Developed specifically as a ready to use reagent for Blotting and In-Vitro Diagnostic applications requiring ultra sensitivity with exceptional signal to noise ratios. Lightning in a Bottle™ is a unique chemiluminescent substrate.

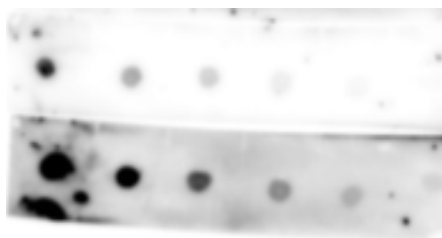
### Benefits of Lightning in a Bottle™

This substrate is a one component ready to use reagent developed for ultra convenience and world-class performance. It is unique and competitively priced.

- Provides superior convenience and sensitivity compared to competitor products.
- No mixing is required.
- Obtain consistent results by avoiding mixing errors.
- Reduce costs by eliminating additional bottles and packaging.
- Low backgrounds.
- High signal to noise ratios.
- Superior Stability.
- 18 month shelf life.

#### Performance Results

100pg 50pg 25pg 12 pg 6 pg 3pg



### ImmunO<sub>4</sub> Partnering

ImmunO<sub>4</sub> scientists have developed some of the best commercial detection and laboratory reagents on the market. The ImmunO<sub>4</sub> technical team can custom develop products for your needs.

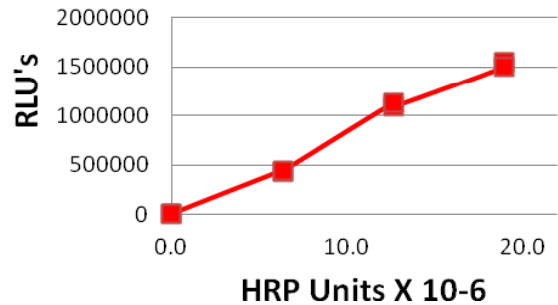
- Flexible business to business interaction
- Custom formulation that meets YOUR assay needs
- Reliable manufacturing and quality control

### Applications

LIABB™ is specially formulated for membrane and blotting applications.

Serial dilutions of rabbit IgG was blotted on PVDF membranes and reacted with a goat anti-rabbit HRP conjugate (1:10,000 dilution) for two hours. The blots were visualized using a leading competitor (top) or ImmunO<sub>4</sub> LIABB chemiluminescent substrate (bottom). The blots were exposed for five minutes.

### Lightning in a Bottle Kinetic Activity (@20 Min)



Replicate dilutions of HRP enzyme were incubated with LIABB One Component Chemiluminescent Peroxidase Substrate. Results were read on a luminometer at 20 minutes. LIABB demonstrated high sensitivity and excellent signal to noise ratios.

## The Next Generation of Laboratory and Detection Reagents

# Lightning in a Bottle™ (Blotting)

One Bottle Provides  
Ultimate Convenience

## Packaging

LIABB is available in 20 mL (sample size), 50 mL, 100 mL, 200 mL, 500mL, and 1 Liter volumes. Custom filling available.

Ordering Information	
Code	Description
LUMXL	Lumi Super Tracker XL™ Membrane / Blotting Chemiluminescent Peroxidase Substrate
LUSNM	Lumi Supernova™ Membrane / Blotting Chemiluminescent Peroxidase Substrate
LUMST	Lumi Super Tracker™ Membrane / Blotting Chemiluminescent Peroxidase Substrate
LUSST	Lumi Super Tracker™ Soluble / ELISA Chemiluminescent Peroxidase Substrate
LIABB	Lightning in a Bottle™ One Component Chemiluminescent Membrane / Blotting Peroxidase Substrate
HRPZR	Super Shield Peroxidase Conjugate Stabilizer™ (Bovine and Mammalian Protein Free)
ALPZR	Super Shield Alkaline Phosphatase Conjugate Stabilizer™ (Bovine and Mammalian Protein Free)
SSSZR	Super Shield Simulator™ Peroxidase Conjugate Stabilizer (Protein Free)
MACZR	Super Shield™ Macro™ Universal Stabilizer (Bovine and Mammalian Protein Free)
APNMC	Armor Plate™ Non Mammalian Protein Coat Block (Bovine and Mammalian Protein Free)
NMPCC	Armor Plate™ Concentrate Non Mammalian Protein Coat Block (5X) and Diluent (10X) (Bovine and Mammalian Protein Free)
APMPC	Armor Plate™ Milk Protein Coat Block (Bovine Serum Free)



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### Lumi Super Tracker<sup>TM</sup> Chemiluminescent Substrates (LUMST<sup>TM</sup>- Membrane / Blotting) (LUSST<sup>TM</sup>- Soluble /ELISA)

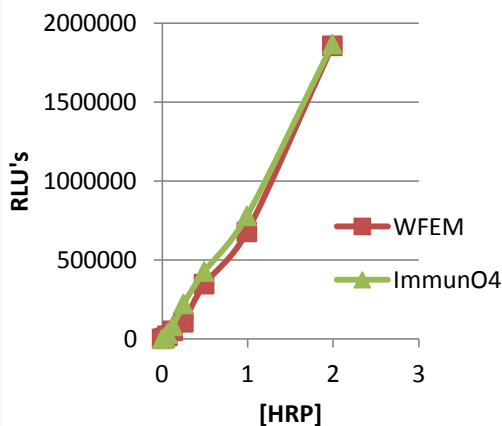
Developed specifically for Blotting and In-Vitro Diagnostic applications requiring ultra sensitivity with exceptional signal to noise ratios, LUMI Super Tracker<sup>TM</sup> is the best chemiluminescent substrate on the market.

#### Benefits of LUMI Super Tracker<sup>TM</sup>

This substrate was developed to deliver world-class performance while providing the assurances you need. Great sensitivity with very low background.

- True low-femto detection
- Lower backgrounds
- Highest signal to noise ratios
- Superior Stability
- 18 month shelf life
- Working stock stable for several days

#### ImmunO<sub>4</sub> LUMI Super Tracker vs Competitor @ 10 Mins



#### ImmunO<sub>4</sub> Partnering

ImmunO<sub>4</sub> scientists have developed some of the best commercial detection and laboratory reagents on the market. The ImmunO<sub>4</sub> technical team can custom develop products for your needs.

- Flexible business to business interaction
- Custom formulation that meets YOUR assay needs
- Reliable manufacturing and quality control

#### Applications

LUMST<sup>TM</sup> is specially formulated for membrane and blotting applications. LUSST<sup>TM</sup> is specially formulated for HRP Microwell and ELISA systems.

## The Next Generation of Laboratory and Detection Reagents

# LUMI Super Tracker™

Low Femto Level Sensitivity

## Packaging

LUMST is available in 50 mL, 100 mL, 200 mL, 500mL, 1 Liter kits.  
LUSST is available in 100 mL, 200 mL, 500 mL and 1 Liter kits. All materials are sold in custom or bulk quantities. Custom filling available.

### Ordering Information

Code	Description
LUMXL	Lumi Super Tracker XL™ Membrane / Blotting Chemiluminescent Peroxidase Substrate
LUSNM	Lumi Supernova™ Membrane / Blotting Chemiluminescent Peroxidase Substrate
LUMST	Lumi Super Tracker™ Membrane / Blotting Chemiluminescent Peroxidase Substrate
LUSST	Lumi Super Tracker™ Soluble / ELISA Chemiluminescent Peroxidase Substrate
LIABB	Lightning in a Bottle™ One Component Chemiluminescent Membrane / Blotting Peroxidase Substrate
HRPZR	Super Shield Peroxidase Conjugate Stabilizer™ (Bovine and Mammalian Protein Free)
ALPZR	Super Shield Alkaline Phosphatase Conjugate Stabilizer™ (Bovine and Mammalian Protein Free)
SSSZR	Super Shield Symulator™ Peroxidase Conjugate Stabilizer (Protein Free)
MACZR	Super Shield™ Macro™ Universal Stabilizer (Bovine and Mammalian Protein Free)
APNMC	Armor Plate™ Non Mammalian Protein Coat Block (Bovine and Mammalian Protein Free)
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[www.Immuno4.com](http://www.Immuno4.com)

# Super Shield™ Symulator™ HRP Conjugate Stabilizer Protein Free (SSSZR™ - One Component)

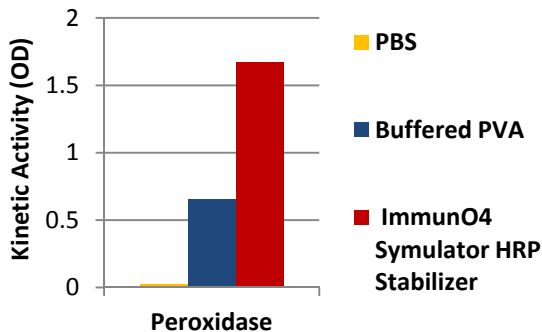
Protein Free Stabilizer, Diluent and Synthetic Replacement; Preserves and stabilizes the activity of Peroxidase (HRP) conjugates used in immunoassays and molecular assays.

## Benefits of Super Shield™ Symulator™

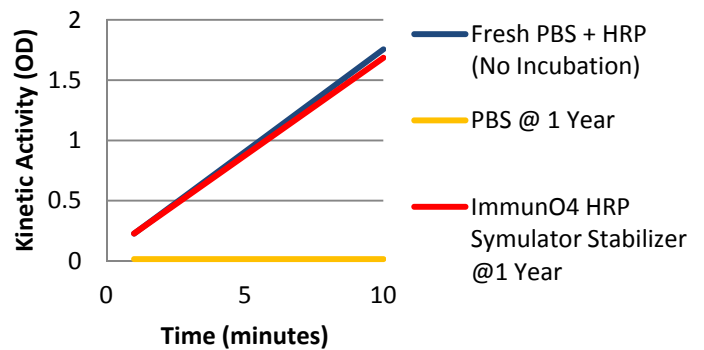
This protein free stabilizer was developed with natural biomolecular stabilizing agents to maximize the life of your HRP conjugates while eliminating non-specific protein interactions.

- Protein free
- Uses natural biomolecular stabilizing agents
- Can use as a Synthetic Replacement
- Minimizes background interactions and issues
- Eliminates BSE regulatory concerns
- ImmunO<sub>4</sub> SSSZR™ is compatible and works well with ImmunO<sub>4</sub> Coat- Block reagents
- Room temperature stable reagent
- Stable through freeze cycles
- Superior HRP and protein stabilization / diluent

**Accelerated Stability of HRP Incubated in Symulator and Various Reagents for 2 Days at 50C**



**Kinetic Activity and Stability of Peroxidase Incubated in Symulator vs Various Reagents for One Year at Room Temperature**



## ImmunO<sub>4</sub> Partnering

ImmunO<sub>4</sub> scientists have developed some of the best commercial detection and laboratory reagents on the market. The ImmunO<sub>4</sub> technical team can custom develop products for your needs.

- Flexible business to business interaction
- Custom formulation that meets YOUR assay needs
- Reliable manufacturing and quality control

## Applications

SSSZR™ is specially formulated to stabilize the activity of HRP conjugates. SSSZR™ also preserves proteins and biomolecules in various other assay systems. It is often used in ELISA, Western Blot, Southern/Northern Blots, and lateral flow. Super Shield Symulator can be used directly as an assay buffer. The product is supplied as a 1X, one component liquid, ready to use formula. Antimicrobial agents are included to retard bacterial growth.

# The Next Generation of Laboratory and Detection Reagents

# Super Shield™ Simulator™ HRP Conjugate Stabilizer

Superior Protein Stabilizer

## Packaging

SSSZR is available in 100 mL, 200 mL and 1L volumes. All materials are sold in custom or bulk quantities. Custom filling available.

Ordering Information	
Code	Description
LUMXL	Lumi Super Tracker XL™ Membrane / Blotting Chemiluminescent Peroxidase Substrate
LUSNM	Lumi Supernova™ Membrane / Blotting Chemiluminescent Peroxidase Substrate
LUMST	Lumi Super Tracker™ Membrane / Blotting Chemiluminescent Peroxidase Substrate
LUSST	Lumi Super Tracker™ Soluble / ELISA Chemiluminescent Peroxidase Substrate
LIABB	Lightning in a Bottle™ One Component Chemiluminescent Membrane / Blotting Peroxidase Substrate
HRPZR	Super Shield Peroxidase Conjugate Stabilizer™ (Bovine and Mammalian Protein Free)
ALPZR	Super Shield Alkaline Phosphatase Conjugate Stabilizer™ (Bovine and Mammalian Protein Free)
SSSZR	Super Shield Simulator™ Peroxidase Conjugate Stabilizer (Protein Free)
MACZR	Super Shield™ Macro™ Universal Stabilizer (Bovine and Mammalian Protein Free)
APNMC	Armor Plate™ Non Mammalian Protein Coat Block (Bovine and Mammalian Protein Free)
NMPCC	Armor Plate™ Concentrate Non Mammalian Protein Coat Block (5X) and Diluent (10X) (Bovine and Mammalian Protein Free)
APMPC	Armor Plate™ Milk Protein Coat Block (Bovine Serum Free)



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# Armor Plate™ Non Mammalian Protein Coat Block Reagent; Bovine and Mammalian Protein Free (APNMC™ – One Component)

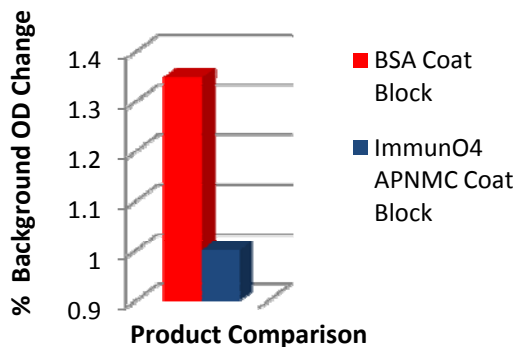
Blocks and stabilizes coated ELISA plates and other solid phase substrates. APNMC™ is a superior reagent that blocks, seals, and stabilizes with a consistent coat.

## Benefits of Armor Plate™

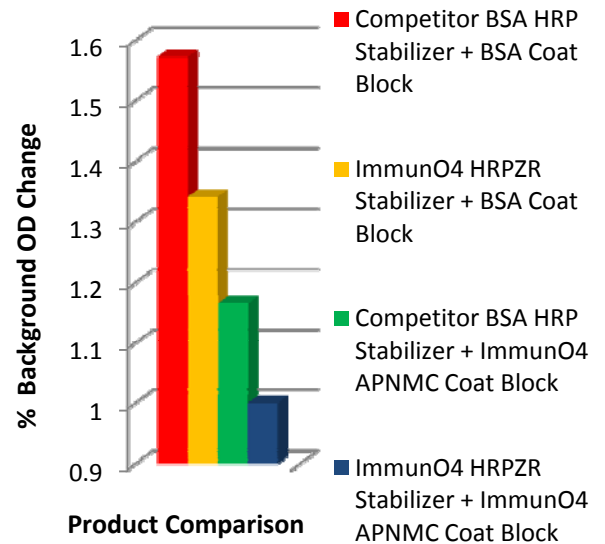
This Coat Block was developed to substantially reduce Non Specific Antibody Binding and eliminate non-specific protein interactions.

- No Mammalian proteins
- Minimizes background interactions and issues
- Eliminates BSE regulatory concerns
- ImmunO<sub>4</sub> APNMC™ synergizes with HRPZR Super Shield™ Stabilizer to further improve unwanted non specific binding
- Room temperature stable reagent
- Stable through freeze-thaw cycles

## ImmunO<sub>4</sub> Armor Plate™ Non Mammalian Coat Block Substantially Reduces Non Specific Antibody Binding



## ImmunO<sub>4</sub> Armor Plate™ Non Mammalian Coat Block Synergizes with HRPZR Stabilizer to Further Improve Non Specific Antibody Binding



## Applications

The above ELISA data was generated using chicken anti-FAV and Goat anti-IgY HRP conjugate. APNMC™ can be used for antigens or antibodies. APNMC™ can be used for coating and blocking. An additional blocking step may not be required, potentially enabling blocking and stabilization in one step. Coated plates dried with APNMC™ have a long term shelf life, even at room temperature, when stored in a cool and dry environment. The product is supplied as a 1X, one component liquid, ready to use formula. A concentrated formula, Armor Plate™ Concentrate NMPCC™, offers a 5X coat block / 10X diluent option. Antimicrobial agents are included to retard bacterial growth.

## ImmunO<sub>4</sub> Partnering

ImmunO<sub>4</sub> scientists have developed some of the best commercial detection and laboratory reagents on the market. The ImmunO<sub>4</sub> technical team can custom develop products for your needs.

- Flexible business to business interaction
- Custom formulation that meets YOUR assay needs
- Reliable manufacturing and quality control

# The Next Generation of Laboratory and Detection Reagents

# Armor Plate™ Non Mammalian Protein Coat Block

Superior Coat Block

## Packaging

APNMC is available in 100 mL, 200 mL and 1L volumes. All materials are sold in custom or bulk quantities. Custom filling available.

Ordering Information	
Code	Description
LUMXL	Lumi Super Tracker XL™ Membrane / Blotting Chemiluminescent Peroxidase Substrate
LUSNM	Lumi Supernova™ Membrane / Blotting Chemiluminescent Peroxidase Substrate
LUMST	Lumi Super Tracker™ Membrane / Blotting Chemiluminescent Peroxidase Substrate
LUSST	Lumi Super Tracker™ Soluble / ELISA Chemiluminescent Peroxidase Substrate
LIABB	Lightning in a Bottle™ One Component Chemiluminescent Membrane / Blotting Peroxidase Substrate
HRPZR	Super Shield Peroxidase Conjugate Stabilizer™ (Bovine and Mammalian Protein Free)
ALPZR	Super Shield Alkaline Phosphatase Conjugate Stabilizer™ (Bovine and Mammalian Protein Free)
SSSZR	Super Shield Symulator™ Peroxidase Conjugate Stabilizer (Protein Free)
MACZR	Super Shield™ Macro™ Universal Stabilizer (Bovine and Mammalian Protein Free)
APNMC	Armor Plate™ Non Mammalian Protein Coat Block (Bovine and Mammalian Protein Free)
NMPCC	Armor Plate™ Concentrate Non Mammalian Protein Coat Block (5X) and Diluent (10X) (Bovine and Mammalian Protein Free)
APMPC	Armor Plate™ Milk Protein Coat Block (Bovine Serum Free)



125 Airport Drive, Unit 14  
 Westminster, MD 21157  
 Phone: 443-821-3504  
[www.ImmunO4.com](http://www.ImmunO4.com)



# Armor Plate™ Milk Protein Coat Block Reagent; Bovine Serum Free (APMPC™ – One Component)

Blocks and stabilizes coated ELISA plates and other solid phase substrates. APMPC™ is a superior reagent that blocks, seals, and stabilizes with a consistent coat.

## Benefits of Armor Plate™

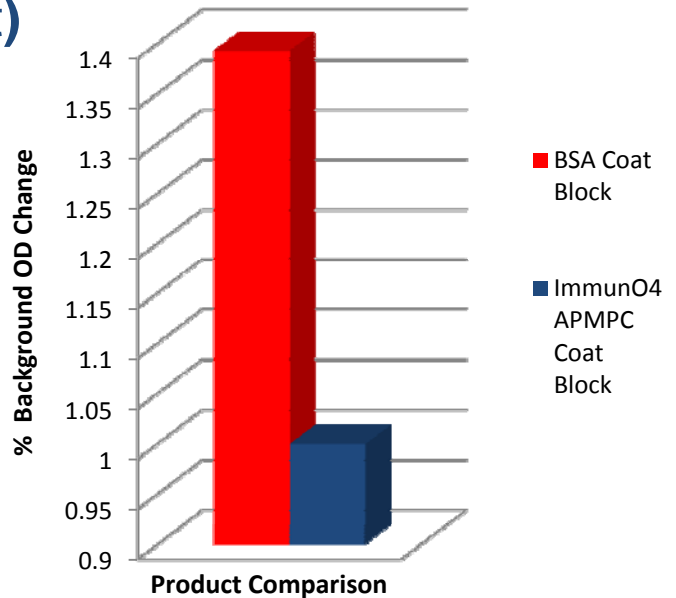
This Coat Block was developed to substantially reduce Non Specific Antibody Binding and eliminate non-specific protein interactions.

- No Bovine serum proteins
- Provides structural support and crowding agents
- Minimizes background interactions and issues
- Eliminates BSE regulatory concerns
- Immuno<sub>4</sub> APMPC™ is compatible and works well in combination with Immuno<sub>4</sub> Stabilizers
- Room temperature stable reagent
- Stable through freeze-thaw cycles

## Applications

The above ELISA data was generated using chicken anti-FAV and Goat anti-IgY HRP conjugate. APMPC™ can be used for antigens or antibodies. APMPC™ can be used for coating and blocking. An additional blocking step may not be required, potentially enabling blocking and stabilization in one step. Coated plates dried with APMPC™ have a long term shelf life, even at room temperature, when stored in a cool and dry environment. The product is supplied as a 1X, one component liquid, ready to use formula. Antimicrobial agents are included to retard bacterial growth.

## Immuno<sub>4</sub> Armor Plate™ Milk Protein Coat Block Substantially Reduces Non Specific Antibody Binding



## Immuno<sub>4</sub> Partnering

Immuno<sub>4</sub> scientists have developed some of the best commercial detection and laboratory reagents on the market. The Immuno<sub>4</sub> technical team can custom develop products for your needs.

- Flexible business to business interaction
- Custom formulation that meets YOUR assay needs
- Reliable manufacturing and quality control

## The Next Generation of Laboratory and Detection Reagents

# Armor Plate™ Milk Protein Coat Block

Superior Coat Block

## Packaging

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# Super Shield™ AP Conjugate Stabilizer

## Bovine and Mammalian Protein Free Stabilizer (ALPZR™ - One Component)

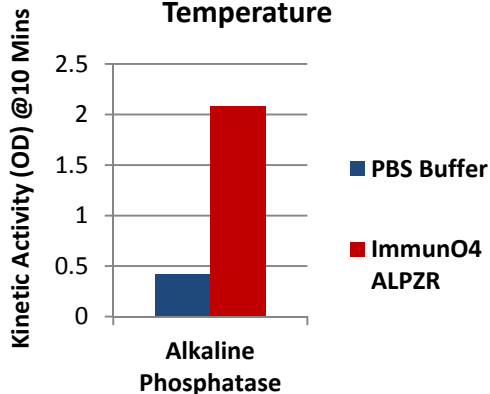
Mammalian Protein Free Stabilizer and Diluent; Preserves and stabilizes the activity of Alkaline Phosphatase (AP) conjugates used in immunoassays and molecular assays.

### Benefits of Super Shield™ AP

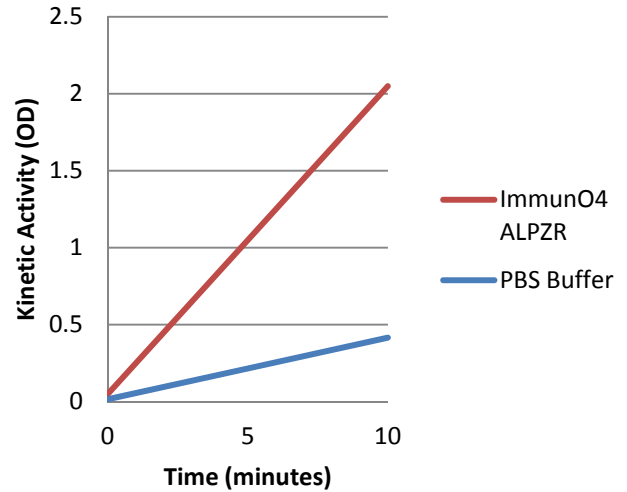
This stabilizer was developed to maximize the life of your AP conjugates while eliminating non-specific protein interactions.

- No Mammalian proteins
- Minimizes background interactions and issues
- ImmunO<sub>4</sub> ALPZR™ is compatible and works well in combination with ImmunO<sub>4</sub> Coat Block reagents
- Eliminates BSE regulatory concerns
- Room temperature stable reagent
- Stable through freeze-thaw cycles
- Superior AP stabilization / diluent

**Stability of Alkaline Phosphatase Incubated in Super Shield ALPZR vs PBS Buffer for 30 Days at Room Temperature**



**Kinetic Activity and Stability of Alkaline Phosphatase Incubated in Super Shield ALPZR vs PBS Buffer for 30 Days at Room Temperature**



### ImmunO<sub>4</sub> Partnering

ImmunO<sub>4</sub> scientists have developed some of the best commercial detection and laboratory reagents on the market. The ImmunO<sub>4</sub> technical team can custom develop products for your needs.

- Flexible business to business interaction
- Custom formulation that meets YOUR assay needs
- Reliable manufacturing and quality control

### Applications

ALPZR™ is specially formulated to stabilize the activity of AP conjugates. ALPZR™ also preserves proteins in various other assay systems. It is often used in ELISA, Western Blot, Southern/Northern Blots, and lateral flow. Super Shield can be used directly as an assay buffer. The product is supplied as a 1X, one component liquid, ready to use formula. Antimicrobial agents are included to retard bacterial growth.

## The Next Generation of Laboratory and Detection Reagents

# Super Shield™ AP Stabilizer

Superior Protein Stabilizer

## Packaging

ALPZR is available in 100 mL, 200 mL and 1L volumes. All materials are sold in custom or bulk quantities. Custom filling available.

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