## **PRODUCT INFORMATION Ferritin Labeled Lectin**

Catalog Number:	I-1501-1
Description:	Pure Limulus polyphemus lectin (LPA) from horseshoe crab, Ferritin conjugated.
Lot Number:	
Protein Concentration: (Based on OD 280)	1 mg purified LPA Ferritin / 1 ml Buffer.
Carbohydrate Specificity:	Sialic Acid (N-Acetyl neuraminic acid).
Inhibitory Carbohydrate:	N-Acetylneuraminic acid and N-Glycolylneuraminic acid.
Activity:	10-20 $\mu$ g/ml will agglutinate type O human erythrocytes. As much as 100 $\mu$ g/ml may be necessary to agglutinate type A or B cells.
Buffer:	$0.05M\ Tris$ - $0.15M\ NaCl,\ 0.01M\ CaCl_2,\ pH\ 8.0.$ Contains $0.05\%\ sodium$ azide as a preservative.
Chemical Used for Conjugation:	Ferritin purified from Horse spleen.
Storage:	Store liquid refrigerated at 5-8°C in aliquots. DO NOT FREEZE! This may disrupt the iron core of the Ferritin molecule.
Stability:	The liquid material is stable for at least 1 year when stored refrigerated in aliquots with 0.05% sodium azide added as a preservative.
Caution:	Refer to the enclosed MSDS for information regarding Lectin. The aluminum seals have sharp edges and the vial itself may have cracks which can cause lacerations. Use caution when opening the vial.
Remarks:	Calcium is REQUIRED for binding. The addition of millimolar concentrations of sialic acid in the above buffer of the addition of a calcium cheling agent such as EDTA may be used to inhibit binding. LPA is composed if 18-20 noncovalently bound subunits and may precipitate if frozen. Clarify by low speed centrifugation.
References:	<ul> <li>Muresan, V., et al. (1982) J. Histochem. Biochem. 30:938-946.</li> <li>Freeman, H.J. (1983) J. Histochem. Cytochem. 31:1241.</li> <li>Robey, F.A. and Liu, T.Y. (1981) J. Biol. Chem. 256:969-975.</li> <li>Roche, A. C. and Monsigny, M. (1974) Biochem. Biophys. Acta. 371:242-254.</li> </ul>
VT LABORA 107 North Amphlet San Mateo, CA 94	ATORIES, INC.         Tel:         650-342-3296           tt Blvd.         Fax:         650-342-2648           401         Orders:         1-800-821-0044           (Outside CA only)



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### **MATERIAL SAFETY DATA SHEET**

Effective Date: March 31, 2006 Revision 4 Page 1 of 2

#### **PRODUCT IDENTIFICATION**

Name:	Purified protein and D-Biotin coupled to Ferritin from horse spleen.
Catalog	IP-01, I-1102 to I-9000, IAF-001 to IAF-2354, IAL-1104 to IAL-4701, IA-2100 to
Number (s):	IA-2701, BA-103, BA-119.
Formula:	Complex polypeptides and D-Biotin coupled to Ferritin.
Synonyms:	Protein A, Lectins, Secondary Antibodies, Avidin, and D-Biotin coupled to Ferritin isolated from horse spleen.

#### **EMERGENCY INFORMATION**

EY Laboratories, Inc. 107 North Amphlett Blvd. San Mateo, CA 94401

# EMERGENCY PHONE: 650-342-3296

#### HAZARDOUS COMPONENTS

Specific protein (s) as listed on the vial label. Solutions are at a concentration generally greater than 0.5mg protein/ml. Ferritin is considered to be tumorigenic and care should be taken to avoid skin and mucous membrane contact. Biological activity of these labeled proteins will vary. Ferritin may permanently stain lining and will stain skin temporarily. All solutions contain less than 0.05% sodium azide as a preservative.

#### HEALTH HAZARD INFORMATION

EXPOSURE LIMITS:	None established. The toxicological properties of these products have not
	been thoroughly investigated. Care should be taken when handling any of
	these materials.
EFFECTS OF	May cause localized eye, skin, or mucous membrane irritation. Some
OVEREXPOSURE:	sensitive individuals may develop a chronic allergic reaction with exposure.
ROUTES OF	Skin and mucous membrane contact with liquids is the primary routes of
EXPOSURE:	exposure. Care should be taken to avoid the formation of aerosols when
	handling any of the solutions.

#### PHYSICAL CHARACTERISTICS

 APPEARANCE:
 Solutions will be dark red to brown.

 SOLUBILITY:
 All liquids are completely miscible in water and biological buffers.

FIRE AND EXPLOSION HAZARDS EXTINGUISHING MEDIA: SPECIAL FIRE FIGHTING PRECAUTIONS: Not considered to be a fire hazard. Water spray or  $CO_2$ . Wear self-contained breathing apparatus and eye protection to prevent contact.

NOTE: All solutions contain less than 0.05% sodium azide as a preservative. Azide may react with lead and copper plumbing to form explosive metal azides. Flush with copious amounts of water when disposing material in the sink.

#### **REACTIVITY DATA**

STABILITY:	Stable. Deco hazardous.
HAZARDOUS POLYMERIZATION:	Will NOT or
INCOMPATIBILITY:	None know

Stable. Decomposition products are not known to be hazardous. Will NOT occur. None known. (Lead and copper may react with sodium azide).

#### SPILL / LEAK PROCEDURES

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MATERIAL RELEASE /	Avoid contact with powder or liquid. Clean up spill with a paper towel		
SPILL:	soaked in household bleach. Do not allow solutions to dry on		
	environmental surfaces. Wash affected area with detergent after the area		
	has been treated with bleach.		
WASTE DISPOSAL:	Incinerate, autoclave, or dispose of paper waste in accordance with all		
	Local, State, and Federal regulations. Due to the small quantities of		
	material involved these products are generally not considered to be		
	environmental hazards. All of these proteins are fully biodegradable.		

#### **EMERGENCY FIRST AID PROCEDURES**

May be harmful if swallowed, inhaled, or allowed to absorb through the skin. Wash contacted area with water for 15 minutes. If inhaled remove to fresh air. Report exposure to the appropriate safety official. Consult a physician if irritation occurs or if there is any indication of an allergic response, such as watering eyes, sneezing, or difficulty breathing.

#### SPECIAL HANDLING PRECAUTIONS

VENTILATION:	No special ventilation is required but it is recommended to handle these
	reagents in a fume hood when possible.
EYE PROTECTION:	Required. Goggles or safety glasses with a side shield are recommended.
RESPIRATORY	Recommended as a safety precaution. An approved respirator may be
PROTECTION:	required for those individuals already known to be sensitive to these materials.
PROTECTIVE GLOVES:	Required when handling any of these materials.

#### SPECIAL PRECAUTIONS

This material is for research and experimental application only. It is not intended for food, drug, household, agricultural, or cosmetic use. All materials should be handled only by technically qualified individuals experienced with working with potentially hazardous chemicals. The above information is correct to the best of our knowledge. The user should make independent decisions regarding completeness of the information, based on all sources available. EY Laboratories, Inc. shall not be held liable for any damage resulting from handling or contact with the above product.



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