PRODUCT INFORMATION **Ferritin Labeled Lectin**

Catalog Number: I-1104-1

Description: Pure Canavalia ensiformis lectin (Con A) from Jackbean, Ferritin conjugated.

Lot Number:

Protein Concentration: 1 mg purified Con A Ferritin / 1 ml Buff er.

(Based on OD 280)

Carbohydrate α-D-Mannose, α-D-Glucose, Branched mannose.

Specificity:

Inhibitory Methyl α -D-Mannopyranoside >> α -D-Mannose >> α -D-Glucose.

Carbohydrate:

Activity: Con A is a relatively weak blood agglutinin More than 10 µg/ml may be

required to give visible agglutination of neuraminidase treated human

erythrocytes.

Buffer: 0.05 M Tris - 0.15M NaCl-0.004M CaCl₂, pH 7.0-7.2. 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. MITOGENIC.

Remarks: Con A exits as a dimer below pH 5.0 and a tetramer in alkaline pH.

References: Hori, T., et al. (1985). Acta Neuropath. (Berlin). 66: 177.

Ree, H.J. (1983). Cancer. 51: 1639-1646.

Greaves, M.F. and Bauminger, S. (1972) Nature New Biol.: 235:67.

Smith, J.L., Conling, D.C. and Barker, C.R. (1972) Lancet, 229.

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650-342-3296 650-342-2648 Fax: 1-800-821-0044 Orders: (Outside CA only)

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MATERIAL SAFETY DATA SHEET

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

PRODUCT IDENTIFICATION

Purified protein and D-Biotin coupled to Ferritin from horse spleen. Name:

IP-01, I-1102 to I-9000, IAF-001 to IAF-2354, IAL-1104 to IAL-4701, IA-2100 to Catalog

Number (s): IA-2701, BA-103, BA-119.

Complex polypeptides and D-Biotin coupled to Ferritin. Formula:

Protein A, Lectins, Secondary Antibodies, Avidin, and D-Biotin coupled to Ferritin Synonyms:

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

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 Not considered to be a fire hazard.

EXTINGUISHING MEDIA:

Water spray or CO 2.

SPECIAL FIRE FIGHTING PRECAUTIONS: Wear self-contained breathing apparatus and eye

protection to prevent contact.

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650-342-3296 107 North Amphlett Blvd. San Mateo, CA 94401 650-342-2648 Fax: Orders: 1-800-821-0044 (Outside CA only) MSDS for Ferritin Labeled Proteins & Biotin Continued - page 2 of 2.

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, Decomposition products are not known to be

hazardous.

HAZARDOUS POLYMERIZATION: Will NOT occur.

INCOMPATIBILITY: None known. (Lead and copper may react with

sodium azide).

SPILL / LEAK PROCEDURES

MATERIAL RELEASE /

Avoid contact with powder or liquid. Clean up spill with a paper towel soaked in household bleach. Do not allow solutions to dry on SPILL:

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

No special ventilation is required but it is recommended to handle these VENTILATION:

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 required for those individuals already known to be sensitive to these PROTECTION:

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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