### **PRODUCT INFORMATION Texas Red<sup>®</sup> Labeled Lectin**

	Catalog Number:	T -6601-1		
	Description:	Pure Cicer arietinum lectin (CPA) from chi	ck pea, Texas	Red <sup>®</sup> conjugated.
	Lot Number:			
	Protein Concentration: (Based on OD 280)	1 mg purified CPA Texas $\operatorname{Red}^{\otimes}/1$ ml Buffe	er.	
	Texas Red <sup>®</sup> / Protein Ratio: (OD 595 / OD 280)			
	Purification Procedure:	Gel filtration performed after conjugation to	o remove free	Texas Red <sup>®</sup> .
	Carbohydrate Specificity:	Not yet determined.		
	Inhibitory Carbohydrate:	Not inhibited by simple sugars. Human inhibitors.	n IgM and b	oovine fetuin are potent
	Activity:	Poor reactivity with normal human erythro- 1 $\mu$ g/ml will agglutinate papain treated cells		ng 7.5% BSA. Less than
	Buffer:	0.01M Phosphate - 0.15M NaCl, pH 7.2 - 7 preservative.	4. Contains	0.05% sodium azide as a
	Chemical Used for Conjugation:	Texas Red <sup>®</sup> .		
	Storage:	Store liquid material frozen in aliquots in an freeze thaw cycles. Clarify by centrifugation.		covered with foil. Avoid
	Stability:	The liquid material is stable for at least 1 with 0.05% sodium azide added as a preser		stored frozen in aliquots
	Caution:	Refer to the enclosed MSDS for informati seals have sharp edges and the vial itsel lacerations. Use caution when opening the	f may have	
	Remarks:	Vluorescent Conjugates are extremely light	sensitive.	
	References: I. Kolberg, J. et al. (1983). Hoppe-Seyler's Z. Physiol. Chem. 364 : 655-66		l. Chem. <b>364</b> : 655-664.	
	Texas Red <sup>®</sup> is a registered trademark of Molecular Probes, Inc.			
	<b>EY</b> LABORAT	ORIES, INC.	Tel:	650-342-3296
OII I	107 North Amphlett San Mateo, CA 9440	Blvd.	Fax: Orders:	650-342-2648 1-800-821-0044 (Outside CA only)

## **General Procedure** Fluorescent Labeled Lectin

The following is a general Procedure and Trouble-Shooting Guide. The information is provided only for your convenience. The success of your experiments are not guaranteed by EY Laboratories, Inc.

#### **Tissue Sections**

		115506 0600		
<ol> <li>Wash and block tissue section. Do not use serum products, the to high levels of non specific background. After blocking, rinse</li> </ol>				
2.	Dilute Fluorescent Labeled Lectin to desired concentration 20-100 µg/ml using Buffer.			
3.	Incubate tissue section with Fluorescent Labeled Lectin for 30 minutes in a moist chamber.			
4.	Wash tiss	ue section with Buffer three times.		
5.	Examine t	tissue section with Fluorescent microscope. U	Jse appropriate filter.	
	Ref. M. Ir	nmbar et. al., (1973). Intnl. Journal of Cancer	, 12, 93-99	
		Cell Suspen	sion	
1.	Wash cell	s with Buffer (See reverse side.)		
2.	Collect cells by centrifugation.			
3.	Dilute Fluorescent Labeled Lectin to 100 µg/ml using Buffer.			
4.	Incubate approximately $1\times10^6$ cells with 1 ml diluted Fluorescent labeled Lectin for 15 minutes at room temperature or in a 37°C water bath.			
5.	Wash cells with Buffer three times using centrifugation.			
6.	Examine cells, with or without fixation with Fluorescent microscope. Use appropriate filter.			
0.	Ref. K. Phiss. (1977). Experimental Pathology, 14, S15			
			erform incubation, when practical, in a dark	
	room or o	covered in foil.	fiorm incubation, when practical, in a dark	
		Absorption and E	mission	
		Absorption and E		
		Absorption and E Absorption/Excitation FITC 492 nm		
		Absorption/Excitation FITC 492 nm TRITC 554 nm	Rate Emission Max. 517 nm 570 nm	
		Absorption/Excitation FITC 492 nm TRITC 554 nm Texas Red™ 596 nm	Rate Emission Max. 517 nm 570 nm 615 nm	
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	oition of lec	Absorption/Excitation FITC 492 nm TRITC 554 nm Texas Red™ 596 nm <b>Carbohydrate In</b> tin binding may be accomplished by using on	Rate Emission Max. 517 nm 570 nm 615 nm	
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	(Outside CA only)

### **MATERIAL SAFETY DATA SHEET**

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

#### **PRODUCT IDENTIFICATION**

Name:	Purified proteins labeled with fluorescein isothiocyanate (FITC),
	tetramethylrhodamine isothiocyanate (TRITC), or Texas Red a trademark of
	Molecular Probes for the sulfonyl chloride derivative of sulforhodamine 101
Catalog	FP-01, RP-01, TP-01, F-1102 to F-9000, R-1102 to R-9000, T-1102 to T-9000, FA-
Number (s):	2100 to FA-2701, RA-2100 to RA-2701, TA-2100 to TA-2701, FAF-001 to FAF-
	2354, RAF-001 to RAF-2354, TAF-001 to TAF-2354, FAL-1104 to FAL-4701,
	RAL-1104 to RAL-4701, TAL-1104 to TAL-4701, FA-01 to FA-013, TA-01 to
	TA-013, DM1011F to DM1064F, FNP-01 to FNP-05, BA-101, BA-102, BA-612.
Synonyms:	Protein A, Avidin (egg white), Glycosylated Bovine Serum Albumin, Lectins,
	Secondary and Monoclonal Antibodies labeled with FITC, TRITC, or Texas Red®

#### **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. Biological activity of these labeled proteins will vary. FITC, TRITC, and Texas Red® are possible carcinogens in their pure form. Compounds with similar chemical structures are known to be reactive with proteins and other biomolecules. The complete properties of the dyes after labeling have not been evaluated. These compounds should be treated as potentially hazardous. All solutions contain less than 0.05% sodium azide as a preservative.

#### HEALTH HAZARD INFORMATION

None established. The toxicological properties of these products have not
been thoroughly investigated. Care should be taken when handling any of
these materials.
Causes localized eye, skin, or mucous membrane irritation. Some sensitive
individuals may develop a chronic allergic reaction with exposure. The
known effects are due to the protein. No specific effects of the bound dye are known at this time.
Inhalation of powders and skin contact with liquids are the primary routes of exposure. Care should be taken to avoid the formation of aerosols when handling any of the solutions.

#### PHYSICAL CHARACTERISTICS

APPEARANCE: SOLUBILITY:

Powders are a light orange. Solutions will be yellow to dark purple. Powders are completely soluble in many biological buffers and water. At liquids are completely miscible in water and biological buffers.

### FIRE AND EXPLOSION HAZARDS

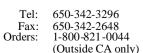
Not considered to be a bire hazard. At high concentrations the chemicals may emit toxic fumes. Such high concentrations are not normally found in a research laboratory.

EXTINGUISHING MEDIA: SPECTAL FIRE FIGHTING PRECAUTIONS:

Dry chemical powder or CO<sub>2</sub>. Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

## **Y** LABORATORIES, INC.

107 North Amphlett Blvd. San Mateo, CA 94401



NOTE: Most 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: HAZARDOUS POLYMERIZATION: INCOMPATIBILITY:		Stable. Decomposition products are not known to be hazardous. Will NOT occur. Alcohols, strong bases and acids, strong oxidizing agents, and heat. (Lead and copper may react with sodium azide).
<b>SPILL / LEAK PROCEDL</b> MATERIAL RELEASE / SPILL:	Avoid contact w soaked in hou	with powder or liquid. Clean up spill with a paper towel sehold bleach. Do not allow solutions to dry on urfaces. Wash affected area with detergent after the area
WASTE DISPOSAL:	Incinerate, auto Local, State, an	whin bleach. clave, or dispose of paper waste in accordance with all id Federal regulations. Due to the small quantities of ed these products are generally not considered to be

#### **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.

environmental hazards. All of these proteins are fully biodegradable.

#### 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, specifically when working with
PROTECTION:	powders. An approved respirator may be 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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