PRODUCT INFORMATION **TRITC Labeled Lectin**

	Catalog Number:	R-7901-1		
	Description:	Pure <i>Psophocarpus tetragonolobus</i> from Winged Bean, TRITC conjugated		A- galactose specific)
	Lot Number:			
	Protein Concentration: (Based on OD 280)	1 mg purified PTA (galactose specific) TRI	TC / 1 ml Buf	îer.
	TRITC / Protein Ratio: (OD 550 / OD 280)			
	Purification Procedure:	Gel filtration performed after conjugation to	remove free	FRITC.
	Carbohydrate Specificity:	Galactose.		
	Inhibitory Carbohydrate:	Galactose>Lactose		
	Activity:	Less than 0.5µg/ml of either the galactose lectin will agglutinate human type O, B, or GalNAc specific PTA will agglutinate t galactose specific PTA will agglutinate type	A ₂ erythrocyt ype A ₁ cells	es. Less than 15 µg/ml of
	Buffer:	0.01M Phosphate - 0.15M NaCl, pH 7.2- a preservative.	7.4. Contain	s 0.05% sodium azide as
	Chemical Used for Conjugation:	Tetramethylrhodamine Isothiocyanate, TRI	TC.	
	Storage:	Store liquid material frozen in aliquots in a freeze thaw cycles. Clarify by centrifugation		covered with foil. Avoid
	Stability:	The liquid material is stable for at least with 0.05% sodium azide added as a preserved		stored frozen in aliquots
	Caution:	Refer to the enclosed MSDS for informat seals have sharp edges and the vial itse lacerations. Use caution when opening the	lf may have	
	Remarks:	Fluorescent Conjugates are extremely light	t sensitive.	
	References:	 Pueppke, S. G. (1979) Biochmi. Biophy Appukuttan, P. S. and Basu, D. (1981) Matsuda, T., et al. (1989) Mol. Immund Patanjali, S. R., et al. (1988) Biochem. Kortt, A. A. (1984) Eur. J. Biochem. 13 Higuchi, M., et al. (1988) Biochim. Biophy Shet, M., et al. (1988) Biochim. Biophy 	Anal. Biochen bl. 26 : 189-19 J. 252 : 625-6 38 : 519-525. : 490-495.	n 113 : 253-255. 95. 31.
SOU	EY LABORATO 107 North Amphlett I San Mateo, CA 9440	DRIES, INC. Blvd. I	Tel: Fax: Orders:	650-342-3296 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 Wash and block tissue section. Do not use serum products, they contain glycoproteins which may lead to high levels of non specific background. After blocking, rinse briefly with Buffer (See reverse side).

1.

2.	Dilute Fluorescent Labeled Lectin to desired concentration 20-100 µg/ml using Buffer.			
2. 3.				
3. 4.	Incubate tissue section with Fluorescent Labeled Lectin for 30 minutes in a moist chamber. Wash tissue section with Buffer three times.			
4. 5.		ash tissue section with Buffer three times. xamine tissue section with Fluorescent microscope. Use appropriate filter.		
5.		bar et. al., (1973). Intnl. Journal of Cancer, 12		
	Kel. M. Imm			
		Cell Suspensio	n	
1.	Wash cells w	with Buffer (See reverse side.)		
2.	Collect cells	cells by centrifugation.		
3.	Dilute Fluorescent Labeled Lectin to 100 µg/ml using Buffer.			
4.	Incubate app temperature of	roximately 1x10 ⁶ cells with 1 ml diluted Fluc or in a 37°C water bath.	prescent labeled Lectin for 15 minutes at room	
5.	Wash cells w	ith Buffer three times using centrifugation.		
6.	Examine cell	s, with or without fixation with Fluorescent mi	croscope. Use appropriate filter.	
	Ref. K. Phiss	. (1977). Experimental Pathology, 14, S15		
		ust be protected from light. Perform incu	ıbation, when practical, in a dark room or	
cove	red in foil.	Absorption and Em	inclos	
		Absorption and Em		
	1.17	Absorption/Excitation Ra		
	FIT	C 492 nm ITC 554 nm	517 nm 570 nm	
		as Red [™] 596 nm	615 nm	
		Carbohydrate Inhibiti	on	
Inhib	nition of lectin	binding may be accomplished by using one of		
A.			incubate section or cells with inhibitory	
11.	carbohydrate	for 30-60 minutes at room temperature. NO	ΓΕ: Complete inhibition may NOT occur.	
В.	Preincubate	diluted Fluorescent Labeled Lectin with i	nhibitory carbohydrate for 30-60 minutes at	
	room tempera	ature before applying to section or cells.		
		TROUBLE SHOOTING	GUIDE	
I	Problem	Cause	Solution	
		1. Low concentration of specific	Causes #1 - #3	
v	Veak or no	oligosaccharide on sample.	a. Increase incubation time.	
	Staining	 Low concentration of lectin conjugate. Low of conjugate is an experimental and the second secon	b. Increase concentration conjugate.	
	-	 Insufficient incubation time. Photobleaching 	a. Avoid exposure to light.	
-		1. Lectin conjugate is too concentrated.	a. Decrease concentration of Lectin conjugate.	
			b. Shorten incubation times.	
		2. Insufficient washing.	a. Perform multiple washings and prolong	
	High		washing time.	
В	Background	Autofluorescent sample.	a. Use fluorochrome with different excitation	
			and emission spectrum.	
			b Use a different leatin conjugate (annumber of	
			b. Use a different lectin conjugate (enzyme or colloidal gold)	
			colloidal gold).	
	Jnexpected	Multiple causes	colloidal gold). a. Perform control reactions.	
	Jnexpected ining Pattern	Multiple causes	colloidal gold).	



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

MSDS for Fluorescent labeled Purified Proteins Continued - page 2 of 2.

MATERIAL SAFETY DATA SHEET

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

PRODUCT IDENTIFICATION

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
FP-01, RP-01, TP-01, F-1102 to F-9000, R-1102 to R-9000, T-1102 to T-9000, FA-
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.
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

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	Causes localized eye, skin, or mucous membrane irritation. Some sensitive
OVEREXPOSURE:	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.
ROUTES OF EXPOSURE:	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. I liquids are completely miscible in water and biological buffers.

FIRE AND EXPLOSION HAZARDS

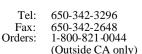
Not considered to be a pire hazard. At high concentrations the chemicals may emit toxic fumes. Such high concentrations are not normally found in a research laboratory.

EXTINGUISHING MEDIA: SPERE FIGHTING RECAUTIONS:

Dry chemical powder or CO2. Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

EY LABORATORIES, INC.

197 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 S

STABILITY:		Stable. Decomposition products are not known to be hazardous.
HAZARDOUS POLYMERIZATION:		Will NOT occur.
INCOMPATIBILITY:		Alcohols, strong bases and acids, strong oxidizing agents, and heat. (Lead and copper may react with sodium azide).
SPILL / LEAK PROCEDU	IRES	
MATERIAL RELEASE /	Avoid contact w	vith powder or liquid. Clean up spill with a paper towel
SPILL:		sehold bleach. Do not allow solutions to dry on
		urfaces. Wash affected area with detergent after the area
	has been treated	
WASTE DISPOSAL:	Incinerate, autoc	clave, or dispose of paper waste in accordance with all
		d 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.



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