PRODUCT INFORMATION Texas Red[®] Labeled Lectin

	Catalog Number:	T-6803-1		
	Description:	Pure Sambucus nigra lectin (SNA-II) from el	derberry, Texa	as Red [®] conjugated.
	Lot Number:			
	Protein Concentration: (Based On OD280)	1 mg purified SNA-II Texas $\operatorname{Red}^{\circledast}/$ 1 ml Buff	fer.	
	Texas Red [®] / Protein Ratio: (OD595 / OD280)			
	Purification Procedure:	Gel filtration performed after conjugation to rea	move free Texa	as Red [®] .
	Carbohydrate Specificity:	GalNAc > Gal		
	Inhibitory Carbohydrate:	High concentration Lactose > β -Galactose.		
	Activity:	SNA-II agglutinates animal and human en preference for type B over A and type O erythr		he lectin has a slight
	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 [®] .		
	Storage:	Store liquid material frozen in aliquots in an freeze thaw cycles. Clarify by centrifugation.	nber vials or c	overed with foil. Avoid
	Stability:	The liquid material is stable for at least 1 ye 0.05% sodium azide added as a preservative.		d frozen in aliquots with
	Caution:	Refer to the enclosed MSDS for informati seals have sharp edges and the vial itsell lacerations. Use caution when opening the vi	f may have c	
	Remarks:	Fluorescent Conjugates are <u>extremely</u> light se	ensitive.	
	References:	Broekaert, W.F., et al. (1984) Biochem 2. Kaifu, R., & Osawa, T. (1976) Carboby	. J. 221 : 163- yd. Res. 52 : 1	169. 79-185.
	Texas Red [®] tr a registered tra	demark of Molecular Probes, Inc.		
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S. S	EY LABORA 107 North Amphlet San Mateo, CA 944	TORIES, INC. t Blvd. 401	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

	lissue Secti	ons		
	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).			
2. Dilute Fl	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 tis	sue section with Buffer three times.			
5. Examine	tissue section with Fluorescent microscope. U	Jse appropriate filter.		
Ref. M. 1	mmbar et. al., (1973). Intnl. Journal of Cancer	, 12, 93-99		
	Cell Suspen	sion		
1. Wash ce	ls with Buffer (See reverse side.)			
2. Collect c	ells by centrifugation.			
3. Dilute Fl	uorescent Labeled Lectin to 100 Hg/ml using	Buffer.		
4. Incubate	Incubate approximately 1x10 ⁶ cells with 1 ml diluted Fluorescent labeled Lectin for 15 minutes at room temperature or in a 37°C water bath.			
5. Wash ce	ls with Buffer three times using centrifugation	L.		
6. Examine	cells, with or without fixation with Fluorescer	t microscope. Use appropriate filter.		
Ref. K. I	hiss. (1977). Experimental Pathology, 14, S15	5		
Fluorochrome	s must be protected from light. Perform	incubation, when practical, in a dark room or		
covered in foil				
	Absorption and I	Emission		
	Absorption/Excitation	Rate Emission Max.		
	FITC 492 nm	517 nm		
TRITC 554 nm		570 nm		
Texas Red [™] 596 nm		615 nm		
	Carbohydrate In			
	ctin binding may be accomplished by using on	•		
carbohyc B. Preincub	lrate for 30-60 minutes at room temperature.	tin , incubate section or cells with inhibitory NOTE: Complete inhibition may NOT occur. th inhibitory carbohydrate for 30-60 minutes at		
TROUBLE SHOOTING GUIDE				
Problem	Cause	Solution		
	1. Low concentration of specific	Causes #1 -#3		
Weak or no	oligosaccharide on sample. 2. Low concentration of lectin conjugate.	a. Increase incubation time.b. Increase concentration conjugate.		
Staining	 Low concentration of lectil conjugate. Insufficient incubation time. 	b. Increase concentration conjugate.		
	4. Photobleaching	a. Avoid exposure to light.		
	1. Lectin conjugate is too concentrated.	a. Decrease concentration of Lectin conjugate.		
		b. Shorten incubation times.		
	Insufficient washing.	a. Perform multiple washings and prolong		
High	2 Autofluorecent comple	washing time.		
Background	3. Autofluorescent sample.	 Use fluorochrome with different excitation and emission spectrum. 		
1		b. Use a different lectin conjugate (enzyme or		
		anlloidal cold)		

		colloidal gold).	un conjugate (enzyme <u>or</u>
Unexpected Staining Pattern	Multiple causes	a. Perform control reb. Use other cytocher or disprove the fin	mical technique to prove
	BORATORIES, INC.	Tel:	650-342-3296

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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

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.
	exposure. Care should be taken to avoid the formation of aerosols whe

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. Al liquids are completely miscible in water and biological buffers.

FIRE AND EXPLOSION HAZARDS

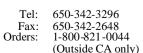
Not considered to be a bire hazard. At high concentrations the chemicals may emit toxic fumes. Such high concentrations are not normally found in a research laboratory.

EXTINGUISHING MEDIA: SPECIAL FIRE FIGHTING PRECAUTIONS:

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

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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).
SPILL / LEAK PROCEDU	RES	
MATERIAL RELEASE / SPILL:	soaked in hous	ith powder or liquid. Clean up spill with a paper towel schold bleach. Do not allow solutions to dry on urfaces. Wash affected area with detergent after the area with bleach.
WASTE DISPOSAL:	Local, State, an material involve	lave, or dispose of paper waste in accordance with all d Federal regulations. Due to the small quantities of d these products are generally not considered to be azards. 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, 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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