

PRODUCT INFORMATION Texas Red[®] Labeled Lectins

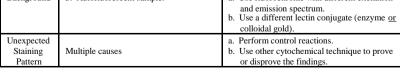
Catalog Number:	T-3501-1		
Description:	Pure Salvia sclarea lectin (SSA), Texas Red [®] conjugated.		
Lot Number:			
Protein Concentration: (Based on OD 280)	1 mg purified SSA Texas $\operatorname{Red}^{\circledast}\!\!/$ 1 ml Buffer.		
Texas Red [®] / Protein Ratio: (OD 595 / OD 280)			
Purification Procedure:	Gel filtration performed after conjugation to remo	ve free T	exas Red [®] .
Carbohydrate Specificity:	N-Acetylgalactosamine. Terminal GalNAc linked	to serine	(or threonine).
Inhibitory Carbohydrate:	N-Acetylgalactosamine.		
Activity:	Reacts weakly with neuraminidase treated cells.		
Buffer:	0.01M Phosphate - 0.15M NaCl, pH 7.2 - 7.4. C preservative.	Contains (0.05% sodium azide as a
Chemical Used for Conjugation:	Texas Red [®] .		
Storage:	Store liquid material frozen in aliquots in amber freeze thaw cycles. Clarify by centrifugation.	vials or c	covered with foil. Avoid
Stability:	The liquid material is stable for at least 1 year who 0.05% sodium azide added as a preservative.	hen store	d frozen in aliquots with
Caution:	Refer to the enclosed MSDS for information re seals have sharp edges and the vial itself ma lacerations. Use caution when opening the vial.		
Remarks:	Fluorescent Conjugates are <u>extremely</u> light sensiti	ive.	
References:	Bird, G.W.G. (1973) Proc. Nat. Acad. Sci. Berger, E.G. and Kozdrowski, I. (1978) FE Bird, G.W.G. and Wingham, J. (1974) Vox		
Texas Red [®] is a registered tr	ademark of Molecular Probes, Inc.		
<u> N</u>			
EY LABORA	TORIES, INC.	Tel:	650-342-3296

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

	113506 0601	0113			
	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 I	Dilute Fluorescent Labeled Lectin to desired concentration 20-100 µg/ml using Buffer.				
3. Incubat	Incubate tissue section with Fluorescent Labeled Lectin for 30 minutes in a moist chamber.				
4. Wash ti	ssue section with Buffer three times.				
5. Examin	e tissue section with Fluorescent microscope. U	Jse appropriate filter.			
Ref. M.	Immbar et. al., (1973). Intnl. Journal of Cancer	, 12, 93-99			
	Cell Suspen	sion			
1. Wash c	•				
2. Collect	cells by centrifugation.				
3. Dilute I	Tuorescent Labeled Lectin to 100 Hg/ml using	g Buffer.			
 Incubate approximately 1x10⁶ cells with 1 ml diluted Fluorescent labeled Lectin for 15 minutes at room temperature or in a 37°C water bath. 					
5. Wash c	ells with Buffer three times using centrifugation	l.			
6. Examin	e cells, with or without fixation with Fluorescer	t microscope. Use appropriate filter.			
Ref. K.	Phiss. (1977). Experimental Pathology, 14, S15	5			
Fluorochron	es must be protected from light. Perform	incubation, when practical, in a dark room or			
covered in fo	il.				
	Absorption and B	Emission			
	Absorption/Excitation	n Rate Emission Max.			
	FITC 492 nm	517 nm			
	TRITC 554 nm	570 nm			
	Texas Red TM 596 nm	615 nm			
	Carbohydrate In	hibition			
Inhibition of l	ectin binding may be accomplished by using on	e of two procedures:			
A. Before	incubating with Fluorescent Labeled Leo	tin, incubate section or cells with inhibitory			
carbohy	drate for 30-60 minutes at room temperature.	NOTE: Complete inhibition may NOT occur.			
	mperature before applying to section or cells.	th inhibitory carbohydrate for 30-60 minutes at			
TOOIII te	inperature before apprying to section of cens.				
	TROUBLE SHOOT	ING GUIDE			
Problem	Cause	Solution			
	1. Low concentration of specific	Causes #1 -#3			
Weak or no	oligosaccharide on sample.	a. Increase incubation time.			
Staining	2. Low concentration of lectin conjugate.	 b. Increase concentration conjugate. 			
~8	3. Insufficient incubation time.	A 11			
	 Photobleaching Lectin conjugate is too concentrated. 	a. Avoid exposure to light.a. Decrease concentration of Lectin conjugate.			
	1. Lectifi conjugate is too concentrated.	b. Shorten incubation times.			
	2. Insufficient washing.	a. Perform multiple washings and prolong			
High	0	washing time.			
Background	3. Autofluorescent sample.	a. Use fluorochrome with different excitation			
		and emission spectrum.			

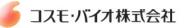




Tel:	650-342-3296
Fax:	650-342-2648
Orders:	1-800-821-0044
	(Outside CA only)

107 North Amphlett Blvd. San Mateo, CA 94401

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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

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

FIRE AND EXPLOSION HAZARDS

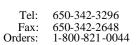
Not considered to be a bre hazard. At high concentrations the chemicals may emit toxic fumes. Such high concentrations are not normally found in a research laboratory.

EXTINGUISHING MEDIA: SPECTAL FIRE FIGHTING PRECAUTIONS:

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

LABORATORIES, INC.

107 North Amphlett Blvd. San Mateo, CA 94401



(Outside CA only)

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

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 PROCEDL MATERIAL RELEASE / SPILL:		
WASTE DISPOSAL:	Local, State, an	lave, 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.



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