# **PRODUCT INFORMATION Texas Red® Labeled Lectin**

	Catalog Number:	T-8012-1
	Description:	Pure Arum maculatum lectin (AMA) from lords and ladies, Texas $\operatorname{Red}^{\otimes}$ conjugated.
	Lot Number:	
	Protein Concentration: (Based on OD 280)	1 mg purified AMA Texas $\operatorname{Red}^{\otimes}$ / 1 ml Buffer.
	Texas Red <sup>®</sup> / Protein Ratio: (OD 595 / OD 280)	
	Purification Procedure:	Gel filtration performed after conjugation to remove free Texas $\operatorname{Red}^{\otimes}$ .
	Carbohydrate Specificity:	Mannose
	Inhibitory Carbohydrate:	Asialoglycoproteins containing N-acetyllactosamine > N-acetyllactosamine.
	Activity:	Agglutinates rabbit but not human erythrocytes.
	Buffer:	0.01M Phosphate - 0.15M NaCl, pH 7.2-7.4. Contains 0.05% sodium azide as a preservative.
	Chemical Used for Conjugation:	Texas Red <sup>®</sup> .
	Storage:	Store liquid material frozen in aliquots in amber vials or covered with foil. Avoid freeze thaw cycles. Clarify by centrifugation.
	Stability:	The liquid material is stable for at least 1 year when stored frozen in aliquots with 0.05% sodium azide added as a preservative.
	Caution:	Refer to the enclosed MSDS for information regarding Lectins. The aluminum seals have sharp edges and the vial itself may have cracks which can cause lacerations. Use caution when opening the vial.
	Remarks:	Phorescent Conjugates are <u>extremely</u> light sensitive.
	References:	<ol> <li>Van Damme, E.J.M., Goossens, K., Smeets, K., Van Leuven, F., Verhaert, P., Peumans, W.J. (1995). The major tuber storage protein of Araceae species is a lectin. Characterization and molecular cloning of the lectin from <i>Arum maculatum</i> L. Plant physiology <b>107</b>: 1147-1158.</li> <li>Allen, A.K. (1995). Purification and characterization of an N-acetyllactosamine-specific lectin from tubers of <i>Arum maculatum</i>. Biochimics of Acta <b>124</b>, 120, 123.</li> </ol>
~	Texas Red <sup>®</sup> is a registered tr	Biochimica et Biophysica Acta <b>1244</b> : 129-132. ademark of Molecular Probes, Inc.
		<b>TORIES, INC.</b> Tel: 650-342-3296
SOUT	107 North Amphlet San Mateo, CA 94	t Blvd. Fax: 650-342-2648
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## **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

1.

1.		els of non specific background. After blocki	ng, rinse briefly with Buffer (See reverse side).	
2.	Dilute Flu	orescent Labeled Lectin to desired concent	ration 20-100 µg/ml using Buffer.	
3.	Incubate t	issue section with Fluorescent Labeled Lectir	n for 30 minutes in a moist chamber.	
4.	Wash tiss	ue section with Buffer three times.		
5.	Examine t	issue 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 ce	lls by centrifugation.		
3.	Dilute Flu	orescent Labeled Lectin to 100 µg/ml using	g Buffer.	
4.	Incubate approximately $1 \times 10^6$ cells with 1 ml diluted Fluorescent labeled Lectin for 15 minutes at room temperature or in a 37°C water bath.			
5.	Wash cell	ells with Buffer three times using centrifugation.		
б.	Examine of	cells, with or without fixation with Fluorescen	t microscope. Use appropriate filter.	
	Ref. K. Pł	niss. (1977). Experimental Pathology, 14, S15	5	
		must be protected from light. Perform	incubation, when practical, in a dark room or	
cover	red in foil.			
		Absorption and E		
	,	Absorption/Excitation FITC 492 nm	n Rate Emission Max. 517 nm	
		TRITC 554 nm	570 nm 615 nm	
		TRITC 554 nm Texas Red™ 596 nm	570 nm 615 nm	
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Orders:	1-800-821-0044
	(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

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

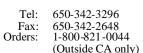
Not considered to be a bire hazard. At high concentrations the chemicals may emit toxic fumes. Such high concentrations are not normally found in a research laboratory.

EXTINGUISHING MEDIA: SPECIAL FIRE FIGHTING PRECAUTIONS:

Dry chemical powder or 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 POLYMERI INCOMPATIBILITY:	ZATION:	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.



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