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

| Catalog Number:   | T-6501-1   |                 |   |
|---|--|-----------------|---|
| Description:  | Pure Vigna radiata lectin (VRA) from Mung  | Bean Texas l    | Red <sup>®</sup> conjugated                         |
| -   | The right runnin feelin (TRT) from Mang  | Boun, Toxus I   | ted conjugated.                                     |
| Lot Number:   |  |                 |   |
| Protein Concentration:<br>(Based on OD 280)                     | 1 mg purified VRA Texas $\text{Red}^{\otimes}$ / 1 ml Buffer.  |                 |   |
| Texas Red <sup>®</sup> / Protein<br>Ratio: (OD 595 / OD<br>280) |  |                 |   |
| Purification Procedure:   | Gel filtration performed after conjugation to rer  | nove free Tex   | as Red <sup>®</sup> .                               |
| Carbohydrate<br>Specificity:                                    | α-Galactose.   |                 |   |
| Inhibitory<br>Carbohydrate:                                     | α-Galactose.   |                 |   |
| Activity:   | Does not agglutinate human erythrocytes. V rabbit erythrocytes.  | /RA will read   | ct with trypsin treated                             |
| Buffer:   | 0.01M Phosphate - 0.15M NaCl, pH 7.2-7.4 preservative.   | . Contains (    | 0.05% sodium azide as a                             |
| Chemical Used for<br>Conjugation:                               | Texas Red <sup>®</sup> .   |                 |   |
| Storage:  | Store liquid material frozen in aliquots in am<br>freeze thaw cycles. Clarify by centrifugation.   | iber vials or c | covered with foil. Avoid                            |
| Stability:  | The liquid material is stable for at least 1 year when stored frozen in aliquots wit 0.05% sodium azide added as a preservative.                               |                 | d frozen in aliquots with                           |
| Caution:  | Refer to the enclosed MSDS for informatic<br>seals have sharp edges and the vial itself<br>lacerations. Use caution when opening the via                       | may have a      |   |
| Remarks:  | Phorescent Conjugates are extremely light se   | ensitive.       |   |
| References:   | Hankins, C. N. and Shannon, L. M. (  | (1978) J. Bio   | l. Chem. 253 : 7791-                                |
|   | <ol> <li>Secova, E., et al. (1988) J. Chromatog</li> <li>Hankins, C. N., et al. (1980) Plant Phys</li> <li>Hankins, C. N., et al. (1980) Plant Phys</li> </ol> | siol. 66 : 375- | 378.  |
| Rexarded is a registered tr                                     | ademark of Molecular Probes, Inc.  |                 |   |
| $Q^{\sim}$  |  |                 |   |
| <b>EY</b> LABORA  | TORIES, INC.   | Tel:            | 650-342-3296  |
| 107 North Amphlet<br>San Mateo, CA 94                           | t Blvd.<br>401   | Fax:<br>Orders: | 650-342-2648<br>1-800-821-0044<br>(Outside CA only) |

(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

1.

|  | 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).   |  |  |
|--|--|--|--|
|  | lute <b>Fluorescent Labeled Lectin</b> 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  | ue section with Buffer three times.  |  |  |
| 5. Examine   | Examine tissue section with Fluorescent microscope. Use appropriate filter.  |  |  |
| Ref. M.  | Immbar et. al., (1973). Intnl. Journal of Cancer   | , <b>12</b> , 93-99  |  |
|  | Cell Suspen  | sion   |  |
| 1. Wash ce   | sh cells with Buffer (See reverse side.)   |  |  |
| 2. Collect   | ct cells by centrifugation.  |  |  |
| 3. Dilute <b>F</b>   | luorescent Labeled Lectin to 100 µg/ml using Buffer.   |  |  |
|  | cubate approximately $1 \times 10^6$ cells with 1 ml diluted Fluorescent labeled Lectin for 15 minutes at room mperature or in a 37°C water bath.  |  |  |
| 5. Wash ce   | lls with Buffer three times using centrifugation.  |  |  |
| 6. Examine   | amine cells, with or without fixation with Fluorescent microscope. Use appropriate filter.   |  |  |
| Ref. K.  | Phiss. (1977). Experimental Pathology, 14, S15   | 5  |  |
| Fluorochrom<br>covered in foi  |  | incubation, when practical, in a dark room or  |  |
|  | Absorption and I   | Emission   |  |
|  | Absorption/Excitation  | n Rate Emission Max.   |  |
|  | FITC 492 nm  | 517 nm   |  |
| TRITC 554 nm   |  |  |  |
|  | TRITC 554 nm   | 570 nm   |  |
|  |  |  |  |
|  | TRITC 554 nm   | 570 nm<br>615 nm   |  |
| Inhibition of le   | TRITC         554 nm           Texas Red™         596 nm   | 570 nm<br>615 nm<br>hibition   |  |
| <ul><li>A. Before carbohy</li><li>B. Preincul</li></ul>  | TRITC     554 nm       Texas Red™     596 nm       Carbohydrate In       ctin binding may be accomplished by using on       incubating with Fluorescent Labeled Lee       drate for 30-60 minutes at room temperature.   | 570 nm<br>615 nm<br>hibition<br>e of two procedures:<br>etin, incubate section or cells with inhibitory  |  |
| <ul><li>A. Before carbohy</li><li>B. Preincul</li></ul>  | TRITC     554 nm       Texas Red™     596 nm       Carbohydrate In       ctin binding may be accomplished by using on       incubating with     Fluorescent       Labeled     Lec       drate for 30-60 minutes at room temperature. I       bate diluted     Fluorescent       Labeled     Lectin with  | 570 nm<br>615 nm<br>hibition<br>e of two procedures:<br>etin, incubate section or cells with inhibitory<br>NOTE: Complete inhibition may NOT occur.<br>ith inhibitory carbohydrate for 30-60 minutes at  |  |
| <ul><li>A. Before carbohy</li><li>B. Preincul</li></ul>  | TRITC     554 nm       Texas Red™     596 nm       Carbohydrate In       ctin binding may be accomplished by using on       incubating with Fluorescent Labeled Lect       drate for 30-60 minutes at room temperature. I       otate diluted Fluorescent Labeled Lectin with       merature before applying to section or cells.  | 570 nm<br>615 nm<br>hibition<br>e of two procedures:<br>etin, incubate section or cells with inhibitory<br>NOTE: Complete inhibition may NOT occur.<br>ith inhibitory carbohydrate for 30-60 minutes at  |  |
| <ul><li>A. Before<br/>carbohy</li><li>B. Preincul<br/>room ter</li></ul>   | TRITC     554 nm       Texas Red™     596 nm       Carbohydrate In       ctin binding may be accomplished by using on       incubating with Fluorescent Labeled Lect       drate for 30-60 minutes at room temperature.       pate diluted Fluorescent Labeled Lectin wi       inperature before applying to section or cells.       TROUBLE SHOOT       1. Low concentration of specific  | 570 nm<br>615 nm<br><b>hibition</b><br>e of two procedures:<br>etin, incubate section or cells with inhibitory<br>NOTE: Complete inhibition may NOT occur.<br>ith inhibitory carbohydrate for 30-60 minutes at<br>ING GUIDE<br>Causes #1 -#3   |  |
| <ul><li>A. Before<br/>carbohy</li><li>B. Preincul<br/>room ter</li></ul>   | TRITC     554 nm       Texas Red™     596 nm       Carbohydrate In       ctin binding may be accomplished by using on       incubating with Fluorescent Labeled Leed       drate for 30-60 minutes at room temperature.       bate diluted Fluorescent Labeled Leed       mark diluted Fluorescent Labeled Leed       TROUBLE SHOOT       1. Low concentration of specific       oligosaccharide on sample.  | 570 nm<br>615 nm<br><b>hibition</b><br>e of two procedures:<br>etin, incubate section or cells with inhibitory<br>NOTE: Complete inhibition may NOT occur.<br>th inhibitory carbohydrate for 30-60 minutes at<br>ING GUIDE<br>Solution<br>Causes #1 - #3<br>a. Increase incubation time.   |  |
| <ul> <li>A. Before carbohy</li> <li>B. Preincul room ten</li> </ul>  | TRITC     554 nm       Texas Red™     596 nm       Carbohydrate In       ate diluted Fluorescent Labeled Lectin with       material colspan="2">TROUBLE SHOOT       Cause       1. Low concentration of specific       oligosaccharide on sample.       2. Low concentration of lectin conjugate.  | 570 nm<br>615 nm<br><b>hibition</b><br>e of two procedures:<br>etin, incubate section or cells with inhibitory<br>NOTE: Complete inhibition may NOT occur.<br>ith inhibitory carbohydrate for 30-60 minutes at<br>ING GUIDE<br>Causes #1 -#3   |  |
| <ul> <li>Before carbohy</li> <li>Preincul room ter</li> </ul>  | TRITC     554 nm       Texas Red™     596 nm       Carbohydrate In       ctin binding may be accomplished by using on       incubating with Fluorescent Labeled Leed       drate for 30-60 minutes at room temperature. I       paate diluted Fluorescent Labeled Leedin with       mperature before applying to section or cells.       TROUBLE SHOOT       I. Low concentration of specific       oligosaccharide on sample.       2. Low concentration of lectin conjugate.       3. Insufficient incubation time.  | 570 nm<br>615 nm<br>hibition<br>e of two procedures:<br>:tin, incubate section or cells with inhibitory<br>NOTE: Complete inhibition may NOT occur.<br>ith inhibitory carbohydrate for 30-60 minutes at<br>ING GUIDE<br>Causes #1 -#3<br>a. Increase incubation time.<br>b. Increase concentration conjugate.  |  |
| <ul> <li>Before carbohy</li> <li>Preincul room ter</li> </ul>  | TRITC       554 nm         Texas Red™       596 nm         Carbohydrate In         ctin binding may be accomplished by using on         incubating with Fluorescent Labeled Lect         transfer fluorescent Labeled Lect         TROUBLE SHOOT         Cause         1. Low concentration of specific       oligosaccharide on sample.         2. Low concentration of lectin conjugate.       3. Insufficient incubation time.         3. Insufficient incubation time.       4. Photobleaching | 570 nm<br>615 nm<br>hibition<br>e of two procedures:<br>etin, incubate section or cells with inhibitory<br>NOTE: Complete inhibition may NOT occur.<br>ith inhibitory carbohydrate for 30-60 minutes at<br>ING GUIDE<br>Causes #1 -#3<br>a. Increase incubation time.<br>b. Increase concentration conjugate.<br>a. Avoid exposure to light.   |  |
| <ul> <li>Before carbohy</li> <li>Preincul room ter</li> </ul>  | TRITC       554 nm         Texas Red™       596 nm         Carbohydrate In         ctin binding may be accomplished by using on         incubating with Fluorescent Labeled Leed         drate for 30-60 minutes at room temperature. I         pate diluted Fluorescent Labeled Leed         TROUBLE SHOOT         I. Low concentration of specific         oligosaccharide on sample.         2. Low concentration of specific       0         oligosaccharide on sample.         2. Low concentration of specific       0         oligosaccharide on sample.         oligosaccharide on sample.         Sufficient incubation time.   | 570 nm<br>615 nm<br>hibition<br>e of two procedures:<br>:tin, incubate section or cells with inhibitory<br>NOTE: Complete inhibition may NOT occur.<br>ith inhibitory carbohydrate for 30-60 minutes at<br>ING GUIDE<br>Causes #1 -#3<br>a. Increase incubation time.<br>b. Increase concentration conjugate.  |  |
| <ul> <li>Before carbohy</li> <li>Preincul room ter</li> </ul>  | TRITC       554 nm         Texas Red™       596 nm         Carbohydrate In         ctin binding may be accomplished by using on         incubating with Fluorescent Labeled Lect         transfer fluorescent Labeled Lect         TROUBLE SHOOT         Cause         1. Low concentration of specific       oligosaccharide on sample.         2. Low concentration of lectin conjugate.       3. Insufficient incubation time.         3. Insufficient incubation time.       4. Photobleaching | 570 nm<br>615 nm<br>hibition<br>e of two procedures:<br>tin, incubate section or cells with inhibitory<br>NOTE: Complete inhibition may NOT occur.<br>ith inhibitory carbohydrate for 30-60 minutes at<br>ING GUIDE<br>Causes #1 - #3<br>a. Increase incubation time.<br>b. Increase concentration conjugate.<br>a. Avoid exposure to light.<br>a. Decrease concentration of Lectin conjugate.<br>b. Shorten incubation times.<br>a. Perform mult iple washings and prolong  |  |
| <ul> <li>A. Before carbohy</li> <li>B. Preincul room tended for the second sec</li></ul> | TRITC     554 nm       Texas Red™     596 nm       Carbohydrate In       ctin binding may be accomplished by using on       incubating with Fluorescent Labeled Lect       drate for 30-60 minutes at room temperature. I       bate diluted Fluorescent Labeled Lectin with       inperature before applying to section or cells.       TROUBLE SHOOT       1. Low concentration of specific       oligosaccharide on sample.       2. Low concentration of lectin conjugate.       3. Insufficient incubation time.       4. Photobleaching       1. Lectin conjugate is too concentrated.       2. Insufficient washing.  | 570 nm<br>615 nm<br>hibition<br>e of two procedures:<br>etin, incubate section or cells with inhibitory<br>NOTE: Complete inhibition may NOT occur.<br>ith inhibitory carbohydrate for 30-60 minutes at<br>ING GUIDE<br>Causes #1 - #3<br>a. Increase incubation time.<br>b. Increase concentration conjugate.<br>a. Avoid exposure to light.<br>a. Decrease concentration of Lectin conjugate.<br>b. Shorten incubation times.<br>c. Berform multiple washings and prolong<br>washing time.   |  |
| <ul> <li>A. Before<br/>carbohy</li> <li>B. Preincul<br/>room ter</li> </ul> <b>Problem</b> Weak or no<br>Staining  | TRITC       554 nm         Texas Red™       596 nm         Carbohydrate In         tabeled Lectin wi         mperature before applying to section or cells.         TROUBLE SHOOTT         Cause         1. Low concentration of specific       oligosaccharide on sample.         2. Low concentration of lectin conjugate.       Insufficient incubation time.         4. Photobleaching       I. Lectin conjugate is too concentrated.  | 570 nm<br>615 nm<br>hibition<br>e of two procedures:<br>etin, incubate section or cells with inhibitory<br>NOTE: Complete inhibition may NOT occur.<br>ith inhibitory carbohydrate for 30-60 minutes at<br>ING GUIDE<br>Causes #1 -#3<br>a. Increase incubation time.<br>b. Increase concentration conjugate.<br>a. Avoid exposure to light.<br>a. Decrease concentration of Lectin conjugate.<br>b. Shorten incubation times.<br>a. Perform mult iple washings and prolong<br>washing time.<br>a. Use fluorochrome with different excitation  |  |
| <ul> <li>A. Before carbohy</li> <li>B. Preincul room tended for the second sec</li></ul> | TRITC     554 nm       Texas Red™     596 nm       Carbohydrate In       ctin binding may be accomplished by using on       incubating with Fluorescent Labeled Lect       drate for 30-60 minutes at room temperature. I       bate diluted Fluorescent Labeled Lectin with       inperature before applying to section or cells.       TROUBLE SHOOT       1. Low concentration of specific       oligosaccharide on sample.       2. Low concentration of lectin conjugate.       3. Insufficient incubation time.       4. Photobleaching       1. Lectin conjugate is too concentrated.       2. Insufficient washing.  | 570 nm<br>615 nm<br>hibition<br>e of two procedures:<br>tin, incubate section or cells with inhibitory<br>NOTE: Complete inhibition may NOT occur.<br>ith inhibitory carbohydrate for 30-60 minutes at<br>ING GUIDE<br>Solution<br>Causes #1 - #3<br>a. Increase incubation time.<br>b. Increase incubation time.<br>b. Increase concentration conjugate.<br>a. Avoid exposure to light.<br>a. Decrease concentration of Lectin conjugate.<br>b. Shorten incubation times.<br>a. Perform mult iple washings and prolong<br>washing time.<br>a. Use fluorochrome with different excitation<br>and emission spectrum.                            |  |
| <ul> <li>A. Before carbohy</li> <li>B. Preincul room tended for the second sec</li></ul> | TRITC     554 nm       Texas Red™     596 nm       Carbohydrate In       ctin binding may be accomplished by using on       incubating with Fluorescent Labeled Lect       drate for 30-60 minutes at room temperature. I       bate diluted Fluorescent Labeled Lectin with       inperature before applying to section or cells.       TROUBLE SHOOT       1. Low concentration of specific       oligosaccharide on sample.       2. Low concentration of lectin conjugate.       3. Insufficient incubation time.       4. Photobleaching       1. Lectin conjugate is too concentrated.       2. Insufficient washing.  | 570 nm<br>615 nm<br>hibition<br>e of two procedures:<br>etin, incubate section or cells with inhibitory<br>NOTE: Complete inhibition may NOT occur.<br>ith inhibitory carbohydrate for 30-60 minutes at<br>ING GUIDE<br>Causes #1 -#3<br>a. Increase incubation time.<br>b. Increase concentration conjugate.<br>a. Avoid exposure to light.<br>a. Decrease concentration of Lectin conjugate.<br>b. Shorten incubation times.<br>a. Perform mult iple washings and prolong<br>washing time.<br>a. Use fluorochrome with different excitation  |  |
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| <ul> <li>A. Before<br/>carbohy</li> <li>B. Preincul<br/>room ten</li> </ul> <b>Problem</b> Weak or no<br>Staining High<br>Background   | TRITC     554 nm       Texas Red™     596 nm       Carbohydrate In       ctin binding may be accomplished by using on       incubating with Fluorescent Labeled Lect       drate for 30-60 minutes at room temperature. I       bate diluted Fluorescent Labeled Lectin with       inperature before applying to section or cells.       TROUBLE SHOOT       1. Low concentration of specific       oligosaccharide on sample.       2. Low concentration of lectin conjugate.       3. Insufficient incubation time.       4. Photobleaching       1. Lectin conjugate is too concentrated.       2. Insufficient washing.  | 570 nm<br>615 nm<br>hibition<br>e of two procedures:<br>etin, incubate section or cells with inhibitory<br>NOTE: Complete inhibition may NOT occur.<br>ith inhibitory carbohydrate for 30-60 minutes at<br>ING GUIDE<br>Causes #1 - #3<br>a. Increase incubation time.<br>b. Increase concentration conjugate.<br>a. Avoid exposure to light.<br>a. Decrease concentration of Lectin conjugate.<br>b. Shorten incubation times.<br>a. Perform mult iple washings and prolong<br>washing time.<br>a. Use fluorochrome with different excitation<br>and emission spectrum.<br>b. Use a different lectin conjugate (enzyme or<br>colloidal gold). |  |



| 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 <sup>®</sup> 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<br>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

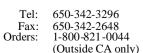
Not considered to be a bire hazard. At high concentrations the chemicals may emit toxic fumes. Such high concentrations are not normally found in a research laboratory.

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:<br>HAZARDOUS POLYMERI<br>INCOMPATIBILITY: | ZATION:                           | Stable. Decomposition products are not known to be<br>hazardous.<br>Will NOT occur.<br>Alcohols, strong bases and acids, strong oxidizing<br>agents, and heat. (Lead and copper may react with<br>sodium azide).                 |
|--|-----------------------------------|--|
| SPILL / LEAK PROCEDU                                 | RES                               |  |
| MATERIAL RELEASE /<br>SPILL:                         | soaked in hous                    | ith powder or liquid. Clean up spill with a paper towel<br>schold bleach. Do not allow solutions to dry on<br>urfaces. Wash affected area with detergent after the area<br>with bleach.  |
| WASTE DISPOSAL:                                      | Local, State, an material involve | lave, or dispose of paper waste in accordance with all<br>d Federal regulations. Due to the small quantities of<br>d these products are generally not considered to be<br>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)