PRODUCT INFORMATION Antisera to Human and Non-Human Antigens and Their Conjugates

EY Laboratories' AT & AL series antibodies are prepared by various techniques. Some antibodies are obtained by ammonium sulfate fractionation, while others are delipidated antisera. All antibodies have a high titer, however, working dilutions for each system to be studied must be determined by the investigator.

Antisera and their conjugates are intended for use in immunodiffusion, IEP, or experimentation that does not require an affinity purified antibody. Generally these antibodies and their conjugates are not monospecific, so that a small amount of non-specific binding may occur. Information on cross reactivity is not available for each antibody. If cross reactivity information is required please contact EY Laboratories, Inc.

Catalog Number:	AA-2361-1
Description:	Alkaline Phosphatase Conjugated Rabbit Polyclonal Antibody to Mouse IgG, 1mL
Lot Number:	
Expiration Date:	1 year from date of manufacture
Protein Concentration: (Based on OD280)	
Chemical Used for Conjugation: (where applicable)	Alkaline Phosphatase
Buffer:	0.01M Phosphate – 0.15M NaCl, pH 7.2-7.4. 0.05% sodium azide is added as a preservative EXCEPT for peroxidase conjugates.
Storage:	Store liquid frozen in aliquots EXCEPT for Ferritin and Alkaline Phosphatase conjugates, which must be refrigerated, not frozen. Alkaline Phosphatase conjugates contain up to 50% glycerol.
Stability:	The liquid material is stable for several years when stored in aliquots with 0.05% sodium azide added as a preservative. NOTE: DO NOT add sodium azide to peroxidase conjugates.
Caution:	Refer to the enclosed MSDS for information regarding affinity-purified antipodies and their conjugates. The aluminum seals have sharp edges and the tractiself may have cracks, which can cause lacerations. Use caution when opening the vial.
	For Research and Laboratory Use Only.

PRODUCT INFORMATION Alkaline Phosphatase Enzyme Activity Assay

Chemical Principle:	En		
	Orthophosphoric Monoester + H ₂ 0 \rightarrow Alcohol + H ₃ PO ₄		
Assay Reagents:	BUFFER: ENZYME:	0.1 M Tris buffer, pH 8.2. Dilute with 0.1 M Tris Buffer.	
Procedure:	SUBSTRATE: 1. Add 2.9 ml su test tube.	Acceptable dilution: 5-20 μg/ml. 0.001 M p-nitrophenylphosphate (P-NPP). bstrate to Reaction test tube and 2.9 ml to Control	
		add 100µl of diluted ENZYME to Reaction tube to Control tube. Mix thoroughly.	
	seconds for 3	ecord optical density at 410 nm OD(410) every 15 minutes, or take end point reading after 3 minutes action with 100µl of 5.0 M NaOH.	
	4. Use the OD(4 in absorbance	10) measurement to determine the rate of change per minute.	
Enzyme Activity Calculations:	One unit of activity is the amount of enzyme to decompose 1 μ m of P-NPP/minute at 25°C. 1.62 X 10 ⁴ cm ⁻¹ is the more absorbance of P-NPP.		
	OD(410) / min= <u>OD(410) / 3min - OD(410) Control / 3 minutes</u> <u>3 minutes</u>		
	mg enzyme / ml rea	action mixture = $\frac{[\text{enzyme dilution}]}{30}$	
	units / mg =	$\frac{\text{OD(410) / min}}{1.62 \times 10^4 \text{ ml reaction mixture}}$	



EY LABORATORIES, INC. 107 North Amphlett Blvd. San Mateo, CA 94401

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



Tel: 650-342-3296 Fax: 650-342-2648 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 or biotin labeled with Horseradish Peroxidase or Alkaline Phosphatase.

- Catalog
 HP-02, BA-104, BA-105, BA-108, BA-109, H-1102 to H-9000, LA-1104 to LA-9000, Number (s):

 PA-2100 to PA-2701, AA-2100 to AA-2701, HAF-001 to HAF-2354, AAF-001 to
- AAF-2354, HA-01 to HA-013, AA-01 to AA-013, HAL-1104 to HAL-4701, AAL-1104 to AAL-4701.
- Synonyms: Protein A, Avidin (egg white), Biotin, Lectins, Secondary Antibodies labeled with Horseradish Peroxidase or Alkaline Phosphatase.

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. Horseradish Peroxidase and Alkaline Phosphatase are both potent enzymes which may be harmful if ingested, inhaled, or allowed to absorb through the skin. Both enzymes are known to cause allergic responses in sensitive individuals.

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 OVEREXPOSURE: ROUTES OF EXPOSURE:	May causes localized eye, skin, or mucous membrane irritation. Some sensitive individuals may develop a chronic allergic reaction with 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: Powders are a light brown. Solutions will be light to dark brown.

SOLUBILITY: Powders are completely soluble in many biological buffers and water. All liquids are completely miscible in water and biological buffers.

FIRE AND EXPLOSION HAZARDS EXTINGUISHING MEDIA:

SPECIAL FIRE FIGHTING

PRECAUTIONS:

NOTE:

Not considered to be a fire hazard. Water spray or CO₂. None required.

Alkaline Phosphatase conjugates 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

INCOMPATIBILITY:	None known. (Lead and copper may react with sodium azide).
HAZARDOUS POLYMERIZATION:	Will NOT occur.
	known. They are not believed to be hazardous.
STABILITY:	Stable. The nature of any decomposition products are not

SPILL / LEAK PROCEDURES

MATERIAL RELEASE / SPILL:	Avoid contact with powder or liquid. Clean up spill with a paper towel soaked in household bleach. Do not allow solutions to dry on environmental surfaces. Wash affected area with detergent after the area has been treated with bleach.
WASTE DISPOSAL:	Incinerate, autoclave, or dispose of paper waste in accordance with all Local, State, and Federal regulations. Due to the small quantities of material involved these products are generally not considered to be environmental hazards. 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. Any eye contact should be reported to a physician immediately

SPECIAL HANDLING PRECAUTIONS

VENTILATION:	No special ventilation is required but it is recommended to handle these reagents in a fume
EYE PROTECTION:	hood when possible. Required. Goggles or safety glasses with a side shield are recommended.
RESPIRATORY PROTECTION:	Recommended as a safety precaution, specifically when working with powders. An approved respirator may be required for those individuals already known
PROTECTIVE GLOVES:	to be sensitive to these materials. 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.



107 North Amphlett Blvd. San Mateo, CA 94401 Tel: 650-342-3296 Fax: 650-342-2648 Orders: 1-800-821-0044 (Outside CA only)



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