# **PRODUCT INFORMATION**

Catalog Number:	GE-03-40	
Description:	Colloidal Gold Labeled Alkaline Phosphatase, 40nm Particle Size, 1mL	
Lot Number:		
Expiration Date:		
Protein Concentration:	µg/ml	
HAuCl <sub>4</sub> Concentration:	OD 520 = 4	
Buffer:	Stored in 0.002M Sodium Borate, pH 8.5 - 9.0	
Storage:	<b>DO NOT FREEZE</b> ! Store at 5-8°C.	
Other Data:	Absorbance peak at 520nm. CONTAINS 0.02% SODIUM AZIDE AS A PRESERVATIVE. Gently resuspend any sediment. If necessary, clarify by centrifugation at 400-500 x g for ten minutes before use.	
Ouality Control:	Procedure developed by EY Laboratories, Inc.	
References:	<ol> <li>Muller, C. et al. J. of Imm. Methods (1980) 37 : 185-190.</li> <li>Roth, J. Techniques in Immunocytochemistry. Eds. Bullock and Petrusz Academic Press 1983, 217-284.</li> </ol>	



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



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### **MATERIAL SAFETY DATA SHEET**

Effective Date: March 31, 2006 Revision 4 Page 1 of 2

### PRODUCT IDENTIFICATION

 Name:
 Colloidal gold and colloidal silver labeled proteins, enzymes, and ligands.

 Catalog Number(s):
 G-2 to G40, XGP-2, GP-01 to GP-8006, GAP-01, FGP-01, HGP-01, RGP-01, TGP-01, CCG-0001 to CCG-1018, GA-02, GAA-02, GAB-01 to GAB-02, FGA-02, HGA-02,GB-01 to GB-02, GE-01 to GE-03, GH-01 to GH-02, GM-01 to GM-2701, GAF-001 to GAF-2404, SA-02, SB-01, SH-01, SP-01 to SP-014.

 Formula:
 Complex polypeptides, enzymes, lectins, antibodies, and ligands coupled to colloidal gold or silver particles. Also, unconjugated colloidal gold particles.

 Synonyms:
 Protein A, Horseradish Peroxidase, Strept. Avidin, D-Biotin, Purified Antibodies,

Bovine Serum Albumin, Fetuin, Ovomucoid, RNase, DNase I, Alkaline Phosphatase, Protein G, Monoclonal Antibodies, Lectins, Neoglycoproteins, Adriamycin, and Neomycin coupled to colloidal gold particles or silver colloidal particles.

### **EMERGENCY INFORMATION**

EY Laboratories, Inc. 107 North Amphlett Blvd. San Mateo, CA 94401

### EMERGENCY PHONE: 650-342-3296

### HAZARDOUS COMPONENTS

Specific protein or ligand as listed on the vial label. These solutions contain less than 0.1mg per ml. Biological activity of these proteins will vary. Although these materials are not generally considered to be hazardous they may cause allergic responses in sensitive individuals if inhaled or allowed to contact skin. Adriamycin and Neomycin are both used in cancer therapy and are cytoxic.

**EXTREME CARE** should be used when handling either of these two items. The colloidal gold and colloidal silver solutions are potentially caustic and will temporarily discolor the skin. Most solutions contain 0.02% 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 OVEREXPOSURE: Any of these proteins may cause acute localized eye, skin, or mucous membrane irritation. Some sensitive individuals may develop a chronic allergic reaction with exposure.
 ROUTES OF EXPOSURE: Skin, eye, and mucous membrane contact. Care should be taken to avoid the formation of aerosols when handling any of these solutions.

### PHYSICAL CHARACTERISTICS

APPEARANCE: SOLUBILITY: All burgundy to purple liquid. 2nm - pale yellowish-brown liquid.

## **LABORATORIES, INC.**

07 North Amphlett Blvd. San Mateo, CA 94401 Tel: 650-342-3296 Fax: 650-342-2648 Orders: 1-800-821-0044 (Outside CA only) MSDS for Colloidal Gold Labeled Proteins, Enzymes, and Ligands Continued - page 2 of 2.

Water spray or CO<sub>2</sub>

None required.

#### FIRE AND EXPLOSION HAZARDS

EXTINGUISHING MEDIA: SPECIAL FIRE FIGHTING PRECAUTIONS: NOTE:

#### **REACTIVITY DATA** STABILITY:

HAZARDOUS POLYMERIZATION: INCOMPATIBILITY:

### SPILL / LEAK PROCEDURES

MATERIAL RELEASE / SPILL:

WASTE DISPOSAL:

Most solutions contain 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. Stable. Decomposition products are not known to be hazardous.

Not considered to be a fire hazard.

be hazardous. Will NOT occur. None known. (Lead and copper may react with sodium azide).

Avoid contact with 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. 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. The gold and silver sols may be caustic. Consult a physician if irritation occurs, if there is any indication of an allergic response such as watering eyes, sneezing, or difficulty breathing, or if eye contact occurs.

### 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:	Safety goggles or safety glasses with side shields are
	recommended.
RESPIRATORY PROTECTION:	Recommended as a safety precaution. 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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