PRODUCT INFORMATION **Colloidal Gold Conjugate**

Catalog Number: GM-47-10

Description: Colloidal Gold Conjugated Monoclonal Antibody to Hepatitis B

Surface Antigen, 10nm Particle Size, 1mL

Lot Number:

Expiration Date:

Protein Concentration:

HAuCl₄ Concentration: OD 520 = 4

Buffer: Stored in 0.002M Sodium Borate, pH 8.5 - 9.0

DO NOT FREEZE! Store at 5-8°C. Storage:

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.

Quality Control: Procedure developed by EY Laboratories, Inc.

References: Muller, C. et al. J. of Imm. Methods (1980) 37: 185-190.

> Roth, J. Techniques in Immunocytochemistry. Eds. Bullock and Petrusz Academic Press 1983, 217-284.

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

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

O.C. PROCEDURE FOR GOLD CONJUGATES

PLEASE FOLLOW THE ACCOMPANYING PROCEDURE WHEN RECEIVED TO INSURE THAT THE MATERIAL IS ACTIVE.

MATERIALS REQUIRED:

- 1. Nitrocellulose strip impregnated with appropriate antigen (1µg/spot) - included.
- 2. 900µl 1% BSA in PBS, pH 7.4.
- 3. 100µl gold conjugate.

If less reagent is used, please keep proportions constant.

BLOTTING PROCEDURE:

- 1. Wet the nitrocellulose by adding 900µl 1% BSA/PBS to the vial containing the strip.
- 2. Add 100µl of the gold conjugate to the vial.
- 3. Incubate at room temperature for 1 hour with gentle agitation. Make sure the strip is kept immersed in solution.
- 4. Check the center of the strip for a reddish-pink dot. If no color appears, continue incubating overnight with gentle agitation.

NOTE:

The outer portion of the nitrocellulose has been blocked with BSA and acts as a negative control. No color should appear in this area. 5nm conjugates are difficult to see and generally give a lighter colored dot. If there is no reaction, please contact EY Laboratories, Inc.

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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 G-40, 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

articles.

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 Any of these proteins may cause acute localized eye, skin, or mucous 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 Skin, eye, and mucous membrane contact. Care should be taken to avoid the

EXPOSURE: formation of aerosols when handling any of these solutions.

PHYSICAL CHARACTERISTICS

APPEARANCE: SOLUBILITY: All Juids are completely miscible in water and biological buffers.

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.

FIRE AND EXPLOSION HAZARDS Not considered to be a fire hazard.

EXTINGUISHING MEDIA: Water spray or CO₂.

SPECIAL FIRE FIGHTING PRECAUTIONS: None required.

NOTE: Most solutions

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.

REACTIVITY DATA

STABILITY: Stable. Decomposition products are not known to

be hazardous.

HAZARDOUS POLYMERIZATION: Will NOT occur.

INCOMPATIBILITY: None known. (Lead and copper may react with

sodium azide).

SPILL / LEAK PROCEDURES

MATERIAL RELEASE / SPILL: 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.

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. 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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