



**AURION Protein A or G Gold Reagents**  
**Material Safety Data Sheet: PAG-03**

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**Section 1: Product and Company Identification**

**1.1 Product identifiers**

Product Name: Aurion Protein A or G Gold Conjugates

Product codes: 106.111, 110.111, 115.111, 125.111, 806.111, 810.111, 815.111,  
825.111, 106.133, 110.133, 115.133, 125.133, 806.133, 810.133, 815.133, 825.133

**1.2 Company information**

Manufacturer: Aurion ImmunoGold Reagents & Accessories

Binnenhaven 5, 6709 PD Wageningen,, The Netherlands

Phone: +31-317-415094, Fax: +31-317-415955, Email: info@aurion.nl

Chamber of Commerce 09068171 Arnhem. The Netherlands

**1.3 Emergency phone number**

Emergency Phone # 112 or 911

Date prepared: 01 Feb 2016

MSDS number: PAG-03

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**Section 2: Composition / Ingredients**

This product contains: Protein A or Protein G conjugated with colloidal gold particles in solution.

Ingredients: Purified Staphylococcus proteins, stabilized colloidal gold in a buffer solution containing sodium phosphate and sodium chloride. Preservative: sodium azide 0.05% by weight.

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**Section 3: Hazards Identification**

Emergency Overview: Sodium azide reacts with lead and copper plumbing forming highly explosive metal azides.

Routes of Entry: Inhalation, ingestion and skin absorption.

Effects of Overexposure: Colloidal Gold Compounds may cause contact dermatitis.

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**Section 4: First Aid Measures**

Eye Contact: Flush with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. Call a physician.

Skin Contact: Flush with copious amounts of water for at least 15 minutes. Remove contaminated clothing and shoes. Call a physician.

Ingestion: Wash out mouth with water, provided person is conscious. Call a physician.

Inhalation: Move to fresh air. If breathing becomes difficult, call a physician.



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## **Section 5: Fire Fighting Measures**

Explosion Hazards: Azide reacts with metals such as lead, copper, mercury, silver, gold and halides to form explosive compounds.

Flash Point: Not flammable

Flammable Limits: Lower: N/A, Upper: N/A

Autoignition Temperature: N/A

Extinguishing Methods: Use extinguishing media appropriate to surrounding fire conditions.

Special Fire Fighting Procedures: Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

Specific Hazard(s): May emit toxic fumes under heat exposure

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## **Section 6: Accidental Release Measures**

Evacuation procedures and Safety: Wear rubber gloves.

Cleanup and Disposal of Spill: Absorb on sand or vermiculite and place in closed containers for disposal. Wash spill site after material pickup is complete with copious amounts of water.

Waste Disposal Methods: According to local guidelines for dilute protein solutions containing 0.05% Sodium Azide. Observe all local, state and Federal laws.

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## **Section 7: Handling and Storage**

Minimum / Maximum Storage Temperatures: 0 - 37°C (273 - 310K)

Handling: Do not breathe vapors and mists. Do not get on skin or in eyes. Do not ingest. Use handling, storage and disposal procedures that will prevent contamination of water, food or feed. Avoid freezing.

Storage: Store in a refrigerator

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## **Section 8: Exposure Controls / Personal Protection**

Respiratory Protection: N/A

Ventilation: N/A

Protective Gloves: Compatible chemical-resistant gloves.

Eye Protection: Chemical safety goggles.

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## **Section 9: Physical and Chemical Properties**

Appearance: Liquid

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## **Section 10: Stability and Reactivity**

Stability: Stable



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## **Section 11: Toxicological Information**

The toxicological properties have not been thoroughly investigated.  
Sodium Azide: 0.05% by weight  
Oral rat LD50: 27 mg/kg  
Investigated as tumorigen and mutagen. No activity known

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## **Section 12: Ecological information**

Environmental Fate: When released into the soil, included proteins are expected to biodegrade. Colloidal gold particles will not degrade, chemically inactive.  
Environmental Toxicity: No toxicity anticipated for included proteins. Observe MSDS for Sodium Azide.

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## **Section 13: Disposal Considerations**

Dispose of unused contents in accordance with federal, state and local requirements for the disposal of solutions containing 0.05% Sodium Azide.

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## **Section 14: Transportation Information**

This substance is considered to be non-hazardous for transport. Refrigeration required to warrant activity.

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## **Section 15: Regulatory Information**

Workplace classification: This product is considered non-hazardous.  
TSCA status: Exempt from TSCA.

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## **Section 16: Other Information**

Laboratory reagent. For research use only. Not for diagnostic or therapeutic use.  
AURION makes no warranty of any kind regarding the information furnished herein. These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.  
Users should independently determine the suitability and completeness of information from all sources. While this data is presented in good faith and believed to be accurate, it should be considered only as a supplement to other information gathered by the user. It is the user's responsibility to assure the proper use and disposal of these materials as well as the safety and health of all personnel who may work with or otherwise come in contact with these materials.