

**1. Chemical and Company Identification**

Product Name: Gold Protein Detection Kit for Membranes

Product Use: Laboratory chemical

Manufacturer/Supplier: Cytodiagnostics Inc., 919 Fraser Drive, Unit 11, Burlington, Ontario, Canada, L7L 4X8

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**2. Hazards Identification****Classification of the substance or mixture:**

Not a hazardous substance or mixture

**GHS Label Elements and Precautionary Statements:**

Not a hazardous substance or mixture

**Hazards not otherwise classified:**

None

**3. Composition/Information on Ingredients**

**This product contains:** 500mL Gold solution and 100mL Wash Buffer and 250mL of Solution B

**1) Gold solution – Colloidal gold nanoparticles**

**Component 1:** Water, >99% (w/v), CAS# 7732-18-5

**Component 2:** Gold, <0.1% (w/v), CAS 7440-57-5

**Component 3:** Citrate, <0.1% (w/v), CAS 6132-04-3

**Component 4:** Proprietary Stabilizers

**2) Wash Buffer**

**Component 1:** Water, >95% (w/v), CAS# 7732-18-5

**Component 2:** Polyoxyethylene (20) Sorbitan Monolaurate <5% (w/v), CAS 9005-64-5

**4. First Aid Measures**

**In case of skin contact:** In case of contact with skin, immediately remove contaminated clothing and wash extensively with soap and water and seek medical advice if symptoms occur.

**In case of ingestion:** If swallowed and person is conscious wash mouth with water, seek medical advice immediately.

**In case of eye contact:** In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

**If case of inhalation:** In case of accident by inhalation, remove to fresh air. If breathing becomes difficult seek medical advice. If not breathing, give artificial respiration.

**Most important symptoms and effects, both acute and delayed**

The most important known symptoms and effects are described in the labeling (see section 2) and/or in section 11.

**Immediate medical attention and special treatment needed:**

No data available



## 5. Fire Fighting Measures

### **Suitable extinguishing media:**

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

### **Specific hazards arising from the substance or mixture:**

No data available

### **Special protective equipment and precautions for fire-fighters:**

Wear self-contained breathing apparatus if necessary.

## 6. Accidental Release Measures

### **Personal precautions, protective equipment and emergency procedures:**

Use personal protective equipment. Avoid aerosols or dust formation. Avoid breathing vapours, mist or gas.

### **Methods and materials for containment and cleaning up:**

Keep in a suitable closed container for disposal.

Do not allow product to enter drains. For disposal see section 13.

## 7. Handling and Storage

### **Precautions for safe handling:**

Avoid formation of aerosols and dust.

Provide adequate exhaust ventilation at places where dust and aerosols may form.

### **Conditions for safe storage:**

Keep container tightly closed in a dry and well-ventilated place. Containers, which are opened, must be carefully resealed and kept upright to prevent leakage.

Recommended storage temperature 2-8°C

Do not freeze.

## 8. Exposure Controls/Personal Protection

**Appropriate engineering controls:** Standard industrial hygiene practice.

**Body protection:** The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

**Hand protection:** Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

**Respiratory protection:** Respiratory protection not required. In case of insufficient ventilation or for nuisance exposures use type OV/AG (US) or type ABEK (EU EN 14387) respiratory cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

**Eye protection:** Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166 (EU).

**9. Physical and Chemical Properties**

Appearance	Physical state: liquid (Gold solution and Wash Buffer) Color: Dark red (Gold solution), Clear (Wash Buffer)
Odour	Odourless
Odour threshold	no data available
pH	3
Melting Point/Freezing point	no data available
Initial boiling point/boiling range	no data available
Flash point	no data available
Evaporation rate	no data available
Flammability (solid; gas)	no data available
Lower flammable/explosive limit	no data available
Upper flammable/explosive limit	no data available
Vapour pressure	no data available
Vapour density	no data available
Relative density	no data available
Solubility	no data available
Partition coefficient – n-octanol/water	no data available
Auto-ignition temperature	no data available
Decomposition temperature	no data available
Viscosity	no data available

**10. Stability and Reactivity**

**Reactivity:** No data available

**Chemical stability:** Stable under recommended storage conditions

**Possibility of hazardous reactions:** no data available

**Conditions to avoid:** Temperatures below 0°C

**Materials to avoid:** Oxidizing agents, strong acids

**Hazardous decomposition products:** Hazardous decomposition products may form under fire conditions. – Specific decomposition products not known.

In the event of fire: see section 5

**11. Toxicological Information****Acute Toxicity**

**Oral LD50:** No data available

**Inhalation LD50:** No data available

**Dermal LD50:** No data available

**Other information on acute toxicity:** No data available



**Skin:** No data available - May be harmful in contact with skin.

**Ingestion:** No data available - May be harmful if ingested.

**Eyes:** No data available - May be harmful in contact with eyes.

**Inhalation:** No data available - May be harmful if inhaled.

**Germ Cell Mutagenicity:** No data available

### Carcinogenicity

IARC:

No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

ACGIH:

No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by ACGIH.

### 12. Ecological Information

No data available

### 13. Disposal Considerations

**Disposal:** Consult a licensed waste disposal specialist for proper destruction. Observe all local, state and federal regulations.

### 14. Transport Information

**Hazard class:** Not regulated for transportation.

**Product identification number:** Not determined

### 15. Regulatory Information

This product has been classified in accordance with the hazard criteria of the Hazardous Products Regulations and the safety data sheet contains all of the information required by those regulations.

### 16. Other Information

This product is for laboratory research purposes, not for diagnostic or therapeutic use in humans or animals.

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship. Users should make independent decisions regarding completeness of the information based on all sources available. Cytodiagnostics Inc. shall not be held liable for any damage resulting from handling or contact with the above product.

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