

Revision Number: 1.0

Last updated 1<sup>st</sup> March 2017**1. PRODUCT AND COMPANY IDENTIFICATION**

**Trade Name:** ColorFluor Glucose Oxidase Activity Assay Kit  
**Item Number:** BA0116  
**Manufacturer:** ReagentBio Ireland LTD, Dublin, Ireland  
Email: info@assaygenie.com

**2. HAZARDS IDENTIFICATION****GHS Classification**

Acute toxicity, Oral (Category 4)  
Acute toxicity, Inhalation (Category 5)  
Skin corrosion (Category 1A)  
Serious eye damage (Category 1)  
Acute aquatic toxicity (Category 3)

**GHS Label elements, including precautionary statements****Pictogram**

**Signal word:** Danger

**Hazard statements**

H315 Causes skin irritation.  
H319 Causes serious eye irritation.

**Precautionary statements**

P264: Wash hands thoroughly after handling.  
P280: Wear protective gloves/clothing and eye/face protection.  
P261: Avoid breathing dust/fume/gas/mist/vapours/spray.  
P201: Obtain special instructions before use.  
P202: Do not handle until all safety precautions have been read and understood.  
P281: Use personal protective equipment as required.

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

This product contains the following components and mixture of the following substances with non-hazardous additions.

**Assay Buffer: 10 mL Liquid**

Contains potassium phosphate (CAS#: 7778-77-0)

**HRP Enzyme: 120 µL Liquid**

**H<sub>2</sub>O<sub>2</sub> Standard:** 120 µL 3% hydrogen peroxide (CAS#: 7722-84-1)

**Dye Reagent: 120 µL Liquid**

Contains dimethyl sulfoxide (CAS#: 67-68-5)

**Glucose: 1.5 mL Liquid****4. FIRST AID MEASURES**

**Eye:** Eye irritation. Flush immediately with large amounts of water for at least 15 minutes. Eyelids should be held away from the eyeball to ensure thorough rinsing. Get immediate medical attention.

**Skin:** Itching or burning of the skin. Immediately flush the skin with plenty of water while removing contaminated clothing and shoes. Get immediate medical attention. Wash contaminated clothing before reuse.

**Inhalation:** Nasal irritation, headache, dizziness, nausea, vomiting, heart palpitations, breathing difficulty, cyanosis, tremors, weakness, red flushing of face, irritability. Remove exposed person from source of exposure to fresh air. If not breathing, clear airway and start cardiopulmonary resuscitation (CPR). Avoid mouth-to-mouth resuscitation.

**Ingestion:** Get immediate medical attention. Do not induce vomiting unless directed by medical personnel.

**5. FIRE FIGHTING MEASURES**

**Extinguishing media:** water spray, carbon dioxide, dry chemical powder or appropriate foam.

**Special firefighting procedures:** wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

**Unusual fire and explosion hazards:** emits toxic fumes under fire conditions.

**6. ACCIDENTAL RELEASE MEASURES**

Keep unnecessary people away; isolate hazard area and deny entry. Stay upwind; keep out of low areas. Vapor protective clothing should be worn for

spills and leaks. Shut off ignition sources; no flares, smoking or flames in hazard area. Small spills: Take up with sand or other noncombustible absorbent material and place into containers for later disposal. Large spills: Dike far ahead of liquid spill for later disposal. Do not flush to sewer or waterways. Prevent release to the environment if possible.

**7. HANDLING AND STORAGE**

Keep receptacles tightly sealed and store according to the instructions in the assay protocol.

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

Follow standard laboratory safety procedures, including wearing chemical safety goggles, face shield, gloves, NIOSH approved respiratory protection and protective clothing. Wash and dry hands.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

Refer to 3. Composition/Information On Ingredients.

**10. STABILITY AND REACTIVITY**

**Thermal Decomposition:** no decomposition if used according to specifications.

**Dangerous Products of Decomposition:** nitrogen and sulfur oxides.

**Dangerous Reactions:** none.

**11. TOXICOLOGICAL INFORMATION**

The toxicological effects of this product have not been thoroughly studied. We recommend handling all chemicals with caution.

Dimethyl sulfoxide - Toxicity Data: Oral LD50 (rat): 14,500 mg/kg; Inhalation LC50 (rat, 4 h): 40250 ppm

Potassium phosphate, monobasic - Toxicity Data: Oral LD50 (rat): 4,640 mg/kg; Skin LD50 (rabbit): >4,640 mg/kg;

**12. ECOLOGICAL INFORMATION**

Avoid release into the environment. Runoff from fire control or dilution water may cause pollution.

**13. DISPOSAL INFORMATION**

Dispose in accordance with local, state or national regulations.

**14. TRANSPORT INFORMATION**

Proper Shipping Name: Assay Kits

DOT (US):	Not regulated
UN Number:	Not regulated
Class:	Not regulated
Packaging Group:	Not regulated

**Additional Transport Information:** transport in accordance with local, state and national regulations.

**15. REGULATORY INFORMATION**

**OSHA Hazards:** target organ effect

**SARA 311/312 Hazards:** chronic health hazard

**16. OTHER INFORMATION**

The above information is believed to be accurate, but does not purport to be all inclusive and shall be used only as a guide. Assay Genie makes no warranty, express or implied, and assumes no responsibility as to the accuracy or suitability of such information or application to the User's intended purpose or for consequences of its use. The Users should make independent decisions regarding the completeness of information based on all sources available.