polygenyn

TECHNICAL DATA SHEET

# Glucose Oxidase Stabiliser Solution

**Product Code: PG10**

## PRODUCT APPLICATION

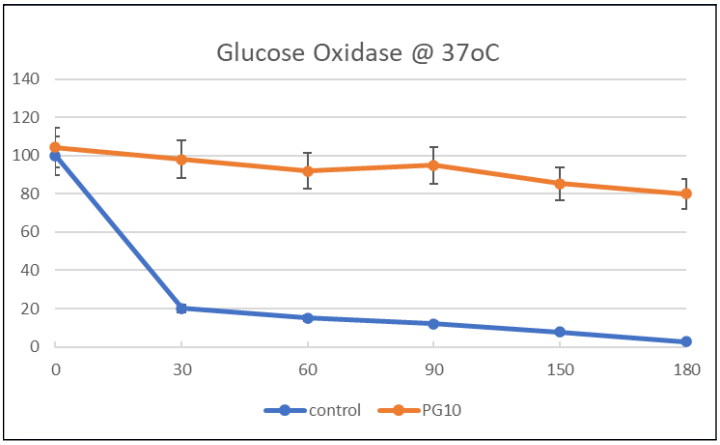
*The PG10 stabiliser has been successfully used to stabilise Glucose oxidase in the dry and wet state.*

## PRODUCT BENEFITS

*Increases glucose oxidase at temperatures of 37°C and 50°C for long term dry storage. Helps with maintaining enzyme stability during the drying process*

## STABILITY DATA

*Stability study of glucose oxidase in dry and wet state on microtitre plate format at 37ºC using PG10.*




## RECOMMENDED METHOD OF USE

*The stabiliser solution should be used at least at a 1:1 dilution with the buffer of choice, further dilution may be required for optimisation. The buffer should be checked for compatibility prior to addition to the enzyme/protein solution. This includes checking the final pH of the solutions when added to the enzyme solution. pH may have to be adjusted accordingly, normally between pH 6-8.*

*This is only a rough guideline, as different enzymes possess different buffer salt requirements, ionic strength preferences and pH optima. Lower salt concentrations should be used if freeze-drying or vacuum drying.*

## PHYSICAL PROPERTIES

| | |
|---|---|
| *Stabiliser* | *PG10* |
| *Appearance* | *Opaque solution* |
| *Form supplied* | *Double concentration liquid in deionised water with preservative added.* |
| *Use* | *Stabilisation of enzymes* |
| *Recommended Buffer* | *0.1M Phosphate buffer, pH7.0* |
| *Quality Control* | *Visual QC of product to ensure no particulates are present.* |
| *Storage* | *6 months at room temperature*<br>*1 year at +4oC*<br>*2 years at –20ºC.* |

## SAFETY AND HANDLING

*Read the Material Safety Data Sheets (MSDS) and product labels before using the products.*

*(Although this product has been tested on the protein of interest in solution and in the dry state with wide ranging applications, Polygenyn Ltd. cannot anticipate all the possible requirements for stabilisation by clients, and ultimately cannot be held liable for non-stabilisation of a protein under such circumstances.)*