Glucose oxidase can be utilized in the enzymatic determination of D-glucose in solution. As glucose oxidase oxidizes β-D-glucose to D-gluconolactone and hydrogen peroxide, horseradish peroxidase is often used as the coupling enzyme for glucose determination. Although glucose oxidase is specific for β-D-glucose, solutions of D-glucose can be quantified, as α-D-glucose will mutarotate to β-D-glucose as the β-D-glucose is consumed by the enzymatic reaction.\(^8\)

Precautions and Disclaimer
This product is for R&D use only, not for drug, household, or other uses. Please consult the Safety Data Sheet for information regarding hazards and safe handling practices.

Preparation Instructions
This enzyme is soluble in 50 mM sodium acetate buffer, pH 5.1, (1 mg/mL), yielding a clear solution.

References

TMG, GCY, AJH, MAM 10/18-1