

Glucose-SL

While there are many methods for this measurement, the enzymatic chemistry using hexokinase and glucose-6-phosphate dehydrogenase has been recommended by the U.S. Food and Drug Administration.¹ This procedure, which is employed by DCL's Glucose-SL, was also used as a reference method in a study of ten glucose chemistries.²

Convenience

This single vial, stable liquid reagent eliminates the necessity of reconstitution, reducing errors and wasted technician time. On most analyzers, the assay has a five minute reaction time.

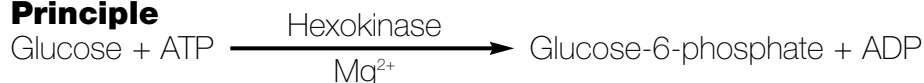
Performance

- Linear from 0.03 to 33.31 mmol/L (0.6 to 600 mg/dL)
- Linear regression = 0.9849 (reference method) + 0.13 mmol/L (2.3 mg/dL)
- Correlation coefficient of 0.9992

Precision of Assay

Level		Total SD		Total CV %	Within-Run SD		Within-Run CV %
mmol/L	mg/dL	mmol/L	mg/dL		mmol/L	mg/dL	
4.91	88.5	0.06	1.1	.3	0.02	0.4	0.4
14.25	256.7	0.17	3.1	1.2	0.06	1.1	0.4

Principle



Glucose-SL

Single vial, stable liquid, ready-to-use formulation, 18 month shelf life at 2-8°C

Cat. No. 235-60 Hexokinase, Endpoint, 5 min., 340 nm 2 x 100 mL

Cat. No. 235-17 Hexokinase, Endpoint, 5 min., 340 nm 5 x 100 mL
(wedge packaging)

Associated Products

SE-035 DC-Cal Calibrator 5 x 3 mL
SM-052 DC-Trol Level 1 Control (Normal) 10 x 5 mL
SM-056 DC-Trol Level 2 Control (Abnormal) 10 x 5 mL

1. United States Department of Health, Education and Welfare, Food and Drug Administration. In Vitro Diagnostic Products for Human Use, Proposed Establishment of Glucose, Fed. Regist. 39, No. 126, 24136-24147 (1974).

2. Passey, R.B., Gillum, R.L., Fuller, J.B., Urry, F.M., Giles, M.L., Evaluation and Comparison of Ten Glucose Methods and the Reference Method Recommended in the Proposed Product Class Standard (1974), *Clin. Chem.* 23, 131-139 (1977).

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