



	Reaction Mix	*Background Control Mix
EZScreen™ Glucose Assay Buffer	10.0 µl	10.5 µl
EZScreen™ Glucose Probe	2.0 µl	2.0 µl
EZScreen™ Glucose Enzyme Mix	0.5 µl	---

Mix and add 12.5 µl of the Reaction Mix to each well containing the Standard, and test samples. Mix well.

* For samples having background, add 12.5 µl of the background control mix to sample background control well(s).

4. Measurement: Incubate the reaction for 30 min. at 37°C, protect from light. Measure absorbance (OD 590 nm) in a microplate reader.

5. Calculation: Subtract 0 Standard reading from all readings which will be the corrected absorbance readings. If the sample background control reading is significant then subtract the sample background control reading from sample reading. Plot the Glucose Standard Curve. Apply the corrected absorbance of the sample to the Glucose Standard Curve to get B nmol of Glucose in the sample well.

$$\text{Sample Glucose concentration (C)} = \text{B/V} \times \text{D nmol/}\mu\text{l or mM}$$

Where: **B** = is the amount of Glucose in the sample well from Standard Curve

V = sample volume added into the reaction well (µl).

D = Dilution Factor

Glucose molecular weight: 180.2 g/mol

1 mM \equiv 18.08 mg/dl

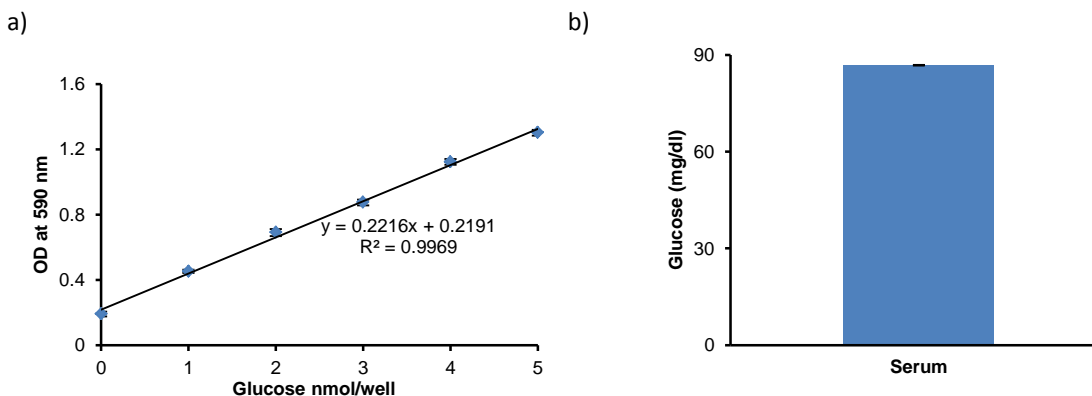


Figure: (a) Glucose Standard Curve; (b) Quantitation of Glucose in human serum. Serum samples were deproteinized using a 10 kDa Spin Column (10000xg, 10 min, 4°C). Undiluted serum filtrate (1 µl) samples were added to the wells directly. Assays were performed according to the kit protocol. Calculated concentration: 86.78 \pm 0.1 mg/dl.

VIII. RELATED PRODUCTS:

Glucose Colorimetric/Fluorometric Assay Kit (K606)

Glucose Colorimetric Assay Kit II (K686)

Glucose-6-Phosphate Dehydrogenase Assay Kit (K657)

PicoProbe™ Glucose Fluorometric Assay Kit (K688)

Glucose uptake Fluorometric Assay Kit (K666)

Glucose Dehydrogenase Activity Colorimetric Assay Kit (K786)

2-NBDG Glucose Uptake Assay Kit (Cell-Based) (K682)

Glucose-6-Phosphate Dehydrogenase Inhibitor Screening Kit (Colorimetric) (K757)

Glucose Oxidase Activity Colorimetric/Fluorometric Assay Kit (K788)

Glucose and Sucrose Colorimetric/Fluorometric Assay Kit (K616)

Maltose and Glucose Colorimetric/Fluorometric Assay Kit (K618)

PicoProbe™ Glucose-6-Phosphate Fluorometric Assay Kit (K687)

Glucose uptake Colorimetric Assay Kit (K676)

10 kDa Spin Column (1997)

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