



# Teco Diagnostics

## Intended Use

For the quantitative determination of glucose in human serum or plasma on TC Matrix analyzer.

## Principle

The enzymatic hexokinase (HK) catalyzes the reaction between glucose and adenosine diphosphate (ADP). In the presence of NAD, the enzyme glucose-6-phosphate dehydrogenase (G6PDH) oxidizes glucose-6-phosphate to 6-phosphogluconate. The system monitors the change in absorbance at 340nm which is directly proportional to the concentration of glucose in the sample.

**Test:**

Glucose for TC matrix(G516-870TM)

**Number of Tests:**

870 tests

**Format:**

Liquid

**Method:**

Endpoint

**Testing Procedure:**

Automated

**Storage Temperature:**

2-8°C

**Wavelength:**

340 nm

**Linearity:**

5-500 mg/dL

**Expected Values:**

70 – 105 mg/dL or 3.9 – 5.8 mmol/L

**Limitations of Procedure:**

Hemoglobin levels up to 400 mg/dL, Triglyceride levels up to 1000mg/dL and Bilirubin levels up to 30 mg/dL were found to exhibit negligible interference.

The anticoagulants EDTA and Sodium Citrate were found to be incompatible with this method.

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