



Teco Diagnostics

Intended Use

For the determination of glycohemoglobin in blood.

Principle

A hemolyzed preparation of the whole blood is mixed continuously for 5 minutes with a weak-binding cation-exchange resin. During this time, HbA₀ binds to the resin. After the mixing period, a filter is used to separate the supernatant containing the glycohemoglobin from the resin. The percent glycohemoglobin is determined by measuring the absorbance at 415 nm of the glycohemoglobin fraction and the total hemoglobin fraction. The ratio of the two absorbances gives the percent glycohemoglobin.

CONTACT US:

TECO DIAGNOSTICS

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Test:

Glycohemoglobin Reagent Set (G540-40)

Number of Tests:

40 tests

Format:

Liquid

Method:

Cation-exchange

Testing Procedure:

Manual

Storage Temperature:

2-8°C

Wavelength:

415 nm

Linearity:

4.0-20.0%

Expected Values:

6.6-8.6%

Limitations of Procedure:

Samples that are severely lipemic may cause elevated results. Fetal hemoglobin (HbF) has resin binding characteristics similar to glycohemoglobin value if present. Glycosylated HbS and HbC bind more tightly than HbA₁ and produce lower values. Sample from patients with hemoglobinopathies or decreased erythrocytes survival times may show incorrect results.