

CATALOG# 80099

HEMOGLOBIN A1C ASSAY KIT

Catalog number

Hemoglobin A1c Assay Kit.....80099

Intended use

A high quality enzymatic assay for the quantification of hemoglobin A1c in whole blood.

Test principle

Crystal Chem’s Hemoglobin A1c (HbA1c) kit is an enzymatic assay in which lysed whole blood samples are subjected to extensive protease digestion. This process releases amino acids including glycated valines from the hemoglobin beta chains. Glycated valines then serve as substrates for specific fructosyl valine oxidase (FVO) enzyme. The FVO specifically cleaves N-terminal valines and produces hydrogen peroxide. This, in turn, is measured using a horseradish peroxidase (POD) catalyzed reaction and a suitable chromagen. No separate measurement for total Hemoglobin (Hb) is needed in this direct enzymatic HbA1c assay.

Specifications

Sample Types	Whole Blood
Assay Time	< 10 minutes
Range	4.0 - 12.0 %
Sample Size	10 µL
Precision	CV < 10 %
Sensitivity	4.0 %

Optional Control

Control for Hemoglobin A1c Assay Kit.....Cat# 80093

Highlights

- ✓ Kits use only 10 µL sample
- ✓ Fast assay time (10 minutes)
- ✓ No need for separate hemoglobin measurement
- ✓ Excellent correlation to ELISA method

Summary of protocol

