

CATALOG# 80300

RAT HEMOGLOBIN A1C ASSAY KIT

Catalog number

Rat Hemoglobin A1c Assay Kit.....80300

Intended use

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

Test principle

Crystal Chem's Rat 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	3.5 - 13.0%
Sample Size	5 µL
Precision	CV < 10%
Sensitivity	3.5%

Optional Control

Control for Rat Hemoglobin A1c Assay Kit.....Cat# 80303

Highlights

- ✓ Kits use only 5 µL sample
- ✓ Fast assay time (10 minutes)
- ✓ No need for separate hemoglobin measurement
- ✓ Optimized for rat samples

Summary of protocol

