

CATALOG# 80310

# MOUSE HEMOGLOBIN A1C ASSAY KIT

## Catalog number

Mouse Hemoglobin A1c Assay Kit.....80310

## Intended use

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

## Test principle

Crystal Chem’s Mouse 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

<b>Sample Types</b>	Whole Blood
<b>Assay Time</b>	< 10 minutes
<b>Range</b>	3.5 - 13.0%
<b>Sample Size</b>	5 µL
<b>Precision</b>	CV < 10%
<b>Sensitivity</b>	3.5%

## Optional Control

Control for Mouse Hemoglobin A1c Assay Kit...Cat# 80313

## Highlights

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

## Summary of protocol

