
Lab Dept: Chemistry

Test Name: HEMOGLOBIN A1C

General Information

Lab Order Codes: HA1C

Synonyms: Glycated Hemoglobin, Glyco-Hgb; Hgb A1c

CPT Codes: 83036 – Hemoglobin; glycated

Test Includes: Hemoglobin A1c concentration reported as a % of total hemoglobin.

Logistics

Test Indications: The measurement of hemoglobin A1c concentration is recommended for monitoring the long-term care of diabetes. The level of Hgb A1c is proportional to the level of glucose in the blood over a period of approximately 2 months.

Lab Testing Sections: Chemistry

Phone Numbers: MIN Lab: 612-813-6280

STP Lab: 651-220-6550

Test Availability: Daily, 24 hours

Turnaround Time: 2 hours, test performed daily

Special Instructions: N/A

Specimen

Specimen Type: Whole blood

Container: Lavender top (EDTA) tube or Vendor supplied capillary holder

Draw Volume: 0.5 mL blood in EDTA tube or 0.035 mL blood in capillary tube

Processed Volume: 0.001 mL blood

Collection: Routine venipuncture **preferred**

Alternate sample: capillary puncture

Special Processing:	Lab Staff: Do not centrifuge. Specimen should remain in original collection tube. EDTA preserved whole blood may be stored at -70 degrees C to 5 degrees C for two weeks, or up to 25 degrees C for one week. Do not refreeze previously frozen samples.
Patient Preparation:	None
Sample Rejection:	Clotted specimen; mislabeled or unlabeled specimen; total Hgb <7 or >24 g/dL

Interpretive

Reference Range:	All ages: 4.2 – 6.3% HbA1c Controlled diabetics: 6 – 9% HbA1c Poorly controlled diabetics: Can be as much as 20% HbA1c or higher
Critical Values:	N/A
Limitations:	The patient's total hemoglobin must be within the range of 7-24 g/dL for testing by this method.
Methodology:	Monoclonal Antibody
Contraindications:	Patients with >10% Hgb F will have lower than expected Hgb A1c results.
References:	DCA Vantage Operator's Guide, REF 06489264 Rev. E, 2012-08 Siemens DCA Systems, Product Insert Hemoglobin A1c Reagent Kit, 10734318 Rev A, 2017-07 DCA System Control Kit package insert, 80984317 Rev G, 2019-01
Updates:	9/4/2018: Testing now offered daily with TAT 2 hours, previously not performed on weekends. 12/15/2020: References updated