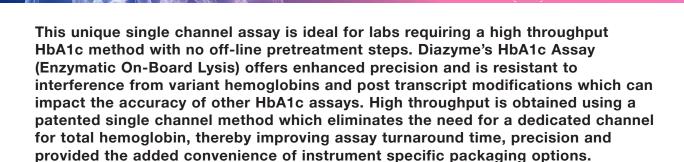
DIRECT HBA1C ASSAY (ENZYMATIC, ON-BOARD-LYSIS)

Diabetic Marker



DIAZYME DIRECT HBA1C ASSAY (ENZYMATIC, ON-BOARD LYSIS) ADVANTAGES

- NGSP certified and traceable to the Diabetes Control and Complication Trial Reference (DCCT) Method
- Single channel assay eliminates the need for a dedicated channel for total hemoglobin measurement
- On-board lysis allows for a faster, more efficient process
- Fully enzymatic, no latex particle residue to cloud cuvettes
- Virtually eliminates interference from hemoglobin variants
- Directly measures glycated hemoglobin and is resistant to interference from post transcript modifications
- Liquid stable reagent requires no reagent preparation, saving time and reducing sample handling

REGULATORY STATUS

510(k) Cleared; EU: CE IVD;

Health Canada Registered

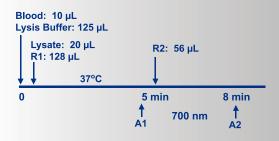


DIRECT HBA1C ASSAY (ENZYMATIC, ON-BOARD LYSIS)

ASSAY SPECIFICATIONS

Method	Enzymatic Assay				
Sample Type & Volume	 EDTA Whole blood with onboard blood lysis application Sample Volume: µL of whole blood 				
Method Correlation	Linear Regression N = 374 y-intercept = -0.090 Slope = 1.023 R ² = 0.9937 Sample Range = 4.2 - 12.0				
Linear Range	4 - 12% HbA1c				
LOB LOD LOQ	0.2% 0.5% 0.8%				
Calibration Levels	2-Point Calibration				
Reagent On-Board Stability	Opened: 4 weeks when stored at 2-8°C (Analyzer Dependent)				

Direct HbA1c Assay (Enzymatic, On-Board Lysis) Procedure*



*Analyzer Dependent

For a list of validated parameters please contact Diazyme technical support at 858.455.4768 or email support@diazyme.com

- 1. American Diabetes Association. Standards of medical care in diabetes-2015. Diabetes Care 2015; 38(suppl 1): S1-S93
- 2. Sacks DB (ed). Global harmonization of hemoglobin A1c. Clinical Chemistry 2005; 51(4): 681-683
- 3. Steffes M, et al. Hemoglobin A1c measurements over nearly two dec-ades: sustaining comparable values throughout the diabetes control and complications trial and the epidemiology of diabetes interventions and complications study. Clinical Chemistry 2005; 51(4): 753-758

ASSAY PRECISION

The precision of the Diazyme Direct HbA1c Assay was evaluated according to CLSI EP5-A2 guideline. In the study, 5 whole blood samples were tested in duplicates per run, 2 runs per day over 20 working days with three lots of reagents. The results of the within-run, between-run, between-day, between-lot, and total CV% for three lots of the reagents combined are listed in the following table (N = 240).

Sample		S1	S2	S 3	S4	S 5
Mean (%)		4.64	5.36	7.51	9.61	11.89
Within- Run	SD	0.04	0.05	0.05	0.06	0.09
	%CV	0.8%	0.9%	0.6%	0.6%	0.7%
Between- Run	SD	0.07	0.05	0.05	0.05	0.08
	%CV	1.5%	0.9%	0.7%	0.5%	0.6%
Between- Day	SD	0.00	0.00	0.00	0.03	0.04
	%CV	0.0%	0.0%	0.0%	0.3%	0.4%
Between- Lot	SD	0.08	0.07	0.07	0.08	0.12
	%CV	1.6%	1.2%	0.9%	0.9%	1.0%
Total	SD	0.08	0.07	0.07	0.08	0.12
	%CV	1.7%	1.2%	0.9%	0.9%	1.0%

Multi-site precision study was performed at Diazyme Laboratories and two external sites on Modular P analyzers. In this study, the same set of 5 whole blood samples were tested in duplicates per run, 2 runs per day for 5 working days with one lot of reagent at three different testing sites, by three different operators on three different Modular P analyzers. The results of the within-run, between-run, between-day, between-site, and total CV% for the three sites combined are listed in the following tables (N =60):

Sample		S1	S2	S 3	S4	S 5
Mean (%)		4.67	5.37	7.52	9.67	11.92
Within- Run	SD	0.05	0.04	0.05	0.07	0.09
	%CV	1.0%	0.8%	0.7%	0.8%	0.8%
Between- Run	SD	0.04	0.05	0.06	0.11	0.09
	%CV	0.8%	1.0%	0.8%	1.1%	0.8%
Between- Day	SD	0.02	0.00	0.00	0.00	0.06
	%CV	0.5%	0.0%	0.0%	0.0%	0.5%
Between- Site	SD	0.07	0.06	0.07	0.12	0.14
	%CV	1.4%	1.2%	0.9%	1.3%	1.2%
Total	SD	0.07	0.07	0.08	0.13	0.14
	%CV	1.4%	1.2%	1.0%	1.4%	1.2%

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