

## Ordering Information

Part Code	Description
<b>INSTRUMENTATION</b>	
274-002	DS5 Analyzer
704-002	DS5 Sample Dispenser
<b>ACCESSORIES</b>	
270-815	Barcode reader kit
<b>CONSUMABLES</b>	
014-350	DS5 300 test kit Contains, reagents, columns, pump tube cassette, sample vials and printer rolls - everything to run HbA1c test
014-299	Microbiocide-D (500ml). For decontamination
<b>QUALITY CONTROL AND CALIBRATORS</b>	
014-380	Calibrators 1 & 2 (2 levels of calibrators, 4 x 0.3ml)
014-175	HbA1c Control (2 levels of controls, 6 x 0.3ml)



# DS5

## Quick and easy HbA1c measurement

- HbA1c results in just 5 minutes
- Immediate labile fraction removal when using the DS5 dispenser
- Simple to use system with icon driven touch screen
- Able to analyze from 1 to 15 samples at a time
- Detects presence for HbS and HbC to reduce interference
- Certified by NGSP to give DCCT compatible results
- Can be calibrated to either NGSP or IFCC



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# DS5

## DS5

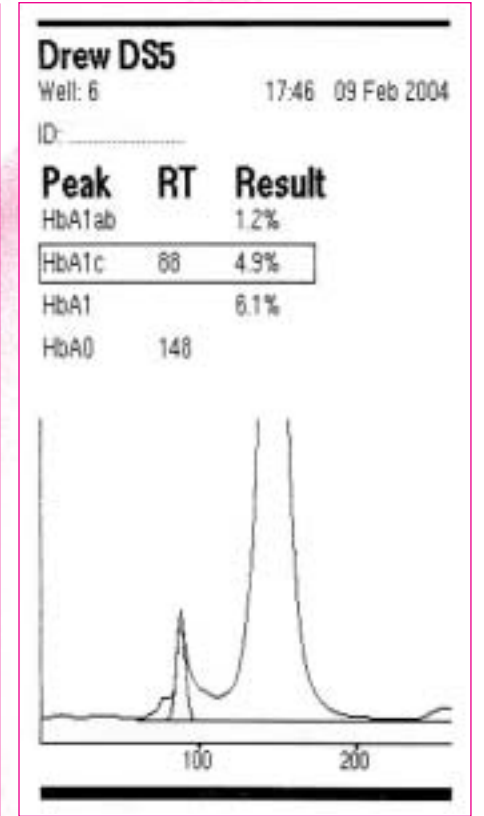
### Introduction

Hemoglobin A1c (HbA1c) is a very useful test in monitoring diabetic patients. It is a measure of the mean amount of blood glucose present in the patient over the previous 3 months and is therefore useful as a monitoring tool. In order to measure HbA1c it has to be separated from the non-glycated hemoglobin.

The DS5 system is intended for the measurement of HbA1c in blood samples. The system's small size and ease of use makes it ideal for main laboratory, clinic or satellite laboratory settings. It is an ideal step up from manual or point-of-care systems.



## DS5 Specifications



### The History

Drew Scientific has been making systems for the measurement of HbA1c since the mid 1980s. Drew's established pedigree and quality of manufacturing give users the surety of a reliable system. The DS5 is being used in thousands of laboratories around the world.

### The Technology

The DS5 uses the established reference method of ion exchange chromatography. The DS5 uses a unique 300 test kit which combines a microcolumn and reagents to separate the HbA1c from the non-glycated fraction.



### Instrument Options

In order to enable the quick and efficient removal of the labile fraction (which has to be removed to ensure correct measurement of HbA1c) the DS5 analyzer is normally supplied with the DS5 Dispenser. This unit automatically aspirates 20 $\mu$ L of blood sample and mixes it with 1ml of pre-heated hemolyzer into a sample cuvette.



**Sample type/handling:** Automatic sampling from a 15 position carousel containing pre-diluted samples.

**Sample volume:** 20  $\mu$ L whole blood

**Sample cycle:** 5 minutes

**Data Input:** Icon driven touch-screen

**Data Output:** Results are printed out using the integral printer. The printout shows a chromatogram so that result quality, retention time and the HbA1c result, can be checked. Data can be transmitted via an RS232 port. The results for the last run are also stored on the integral disk drive.

**Parameters:** HbA1c %. Presence of normal and abnormal hemoglobins can be seen on the printout.

**Flagging:** A full range of error codes are provided to aid in dealing with peculiar samples and troubleshooting.

**Performance and standardization:** The DS5 is NGSP certified to produce results equivalent to DCCT requirements. This means that the accuracy and precision of the DS5 meets all available standards for production of quality results.

In addition to the DS5 kit, a DS5 calibrator is also available. This enables the user to calibrate the system to either of the internationally recognized standards, NGSP or IFCC.

**Quality Control:** The DS5 HbA1c controls are assayed independently to give values on the DS5. The controls are lyophilized and reconstituted with 0.3ml of water. Open vial stability, in common with regular blood samples, is one week.

**Compliance:** The DS5 is CE marked to be IVD compliant and is FDA 510k registered.