NP-112G

Glycated Hemoglobin (HbA1c) Analyzer

Accurate | Compact | Functional



4 µL
Whole blood sample

18
Sample loading capacity

10.4 inch
Touch screen

100,000
Results storage

Ion Exchange HPLC | Normal and Thalassemia modes | Automatic cap piercing

NP-112G

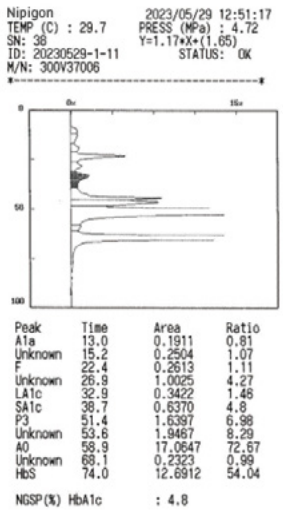
Accurate Results

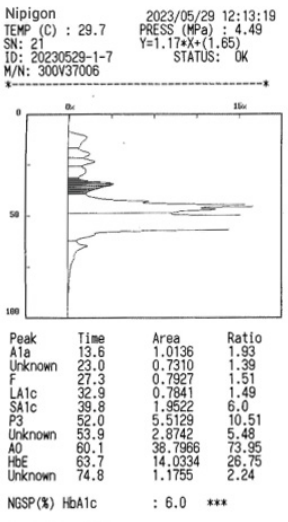
HPLC technology: Known as “Gold-standard” of HbA1c testing

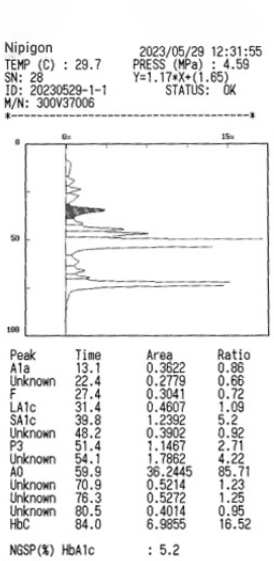
Days: 5 Repeat time : 3

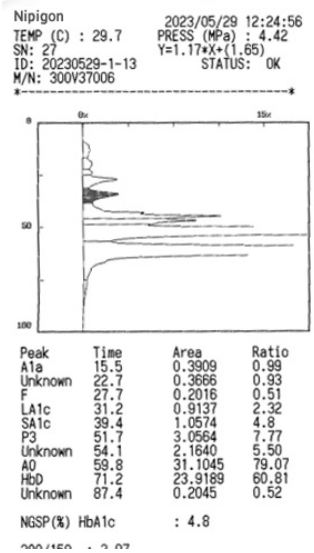
	level 1					level 2				
Statistics	**day1**	**day2**	**day3**	**day4**	**day5**	**day1**	**day2**	**day3**	**day4**	**day5**
Repeat 1	5.6	5.7	5.7	5.8	5.8	11.3	11.5	11.4	11.5	11.4
Repeat 2	5.7	5.8	5.8	5.7	5.8	11.3	11.5	11.6	11.5	11.4
Repeat 3	5.7	5.8	5.7	5.8	5.9	11.4	11.5	11.6	11.4	11.5
Batch Mean Value	5.67	5.77	5.73	5.77	5.83	11.37	11.5	11.53	11.47	11.43
Batch SD	0.058	0.058	0.058	0.058		0.058	0.000	0.000	0.058	0.058
Intra batch precision (CV)			**%1.00**					**%0.60**		
Overall precision (CV)			**%1.33**					**%0.74**		

Variant Separation









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Compact Design & Dual Program

NP112-G Glycated Hemoglobin Analyzer is designed as compact footprint. It is specifically designed for clinical laboratories, hospital, and clinics with low sample volumes.



Reagents placing inside the instrument to minimize the space needed



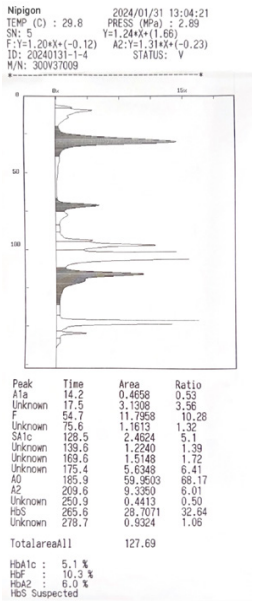


18 samples to be loaded at one time

Dual Program

Normal and Thalassemia modes

- Common variants are detectable for both modes
- Accurate results are reported with the calibration of HbA1c, HbF, and HbA2



Nipigon 2024/01/31 13:04:21
TEMP (C) : 29.8 PRESS (MPa) : 2.89
SN: 5 Y=1.24*X+(1.66)
F:Y=1.20*X+(-0.12) A2:Y=1.31*X+(-0.23)
ID: 20240131-1-4 STATUS: V
M/N: 300V37009

Peak	Time	Area	Ratio
A1a	14.2	0.4658	0.53
Unknown	17.5	3.1308	3.56
F	54.7	11.7958	10.28
Unknown	75.6	1.1613	1.32
SA1c	128.5	2.4624	5.1
Unknown	139.6	1.2240	1.39
Unknown	169.6	1.5148	1.72
Unknown	175.4	5.6348	6.41
A0	185.9	59.9503	68.17
A2	209.6	9.3350	6.01
Unknown	250.9	0.4413	0.50
HbS	265.6	28.7071	32.64
Unknown	278.7	0.9324	1.06
TotalareaAll		127.69	

HbA1c : 5.1 %
HbF : 10.3 %
HbA2 : 6.0 %
HbS Suspected

NP-112G

Easy to Use

User friendly interface

10.4 inch touch screen All information shown in the scree



Easy maintenance

Column and filter are easy to replace No special tools required for daily maintenance



Automatic

Automatic cap piercing Dilution and whole blood sample auto-switching



Multiple input/output devices

Graphs transmission to LIS system External printer and bar code reader connection Built-in thermal printer



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Specifications

Principle	Ion Exchange HPLC
Analytes	HbA1c, HbF, HbE, HbD, HbS, HbC, HbA1a, LA1c, HbA0, HbA2 (Optional)
Throughput	12 sec/test for variant mode; 6 min/test for thalassemia mode
Sample Consumption	Whole blood: 4µL; Diluted blood: 100µL
Loading Capacity	18 Samples
Measuring Range (NGSP)	%20.0-%3.0
Precision	CV≤%2
Data Storage	On-board memory up to 100,000 results with graph
On board reagent volume detection	Software Calculation
Display	10.4 - inch touch screen
Output	Internal Thermal Printer; LIS System; USB
Sample Handler	Dilution and Whole Blood Sample Auto-switching; External barcode reader; Cap Piercing
Working Environment	10C- 30C; Humidity: ≤%80; Altitude: Self-adaptive
Dimension	460 mm × 325 mm × 521 mm (L*W*H)
Weight	22.0 kg

NP-112G

Consumables

Multiple specifications meet the different of laboratories of different sizes needs of

Reagent Package

24 months shelf life 4 months or



Reagent



Haemolyser

Column

Calibrator and Controls

24 months shelf life



Hemoglobin A1c Calibrator



Hemoglobin A1c Control

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