



Analytical[®]

Liquid Chromatography

HbA1HPLC[™]

HbA1HPLC/BioLC Sick Cell Diagnosis (Anemia)

Printing time: Tue Sep 11 19:11:52 2012

Injection time: Sun Sep 02 12:22:15 2012

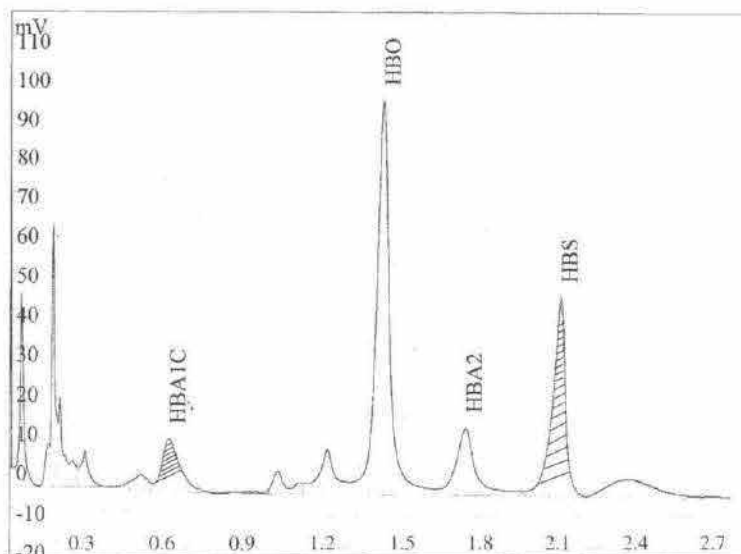
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Calibration data: none

Multiplying factor: 1, Dividing factor: 1

Baseline noise: 1615uV, baseline drift: 100152uV



Time	Name	Conc.	Calibrator	Area	Mark
0.611	HBA1C	8.875		183997	RMV
1.427	HBO	52.93		1097168	V
1.745	HBA2	13.24		274593	V
2.105	HBS	24.96		517551	

The Most Innovative and The Only System in the World for Qualitative and Quantitative Analysis of Diseases

BioLC™ Systems, Reagent Kits, Calibrator and Controls for Clinical & Medical Diagnostics

• DIABETES, HEMOGLOBIN

Hemoglobin Variants /
Hemoglobin A1c (HbA1c)
BThalassemia-Screening in Whole Blood
For Variant™ and BioLC OR hba1HPLC
Hemoglobin A1c (HbA1c) in
Whole Blood with Diamat™

• ALCOHOLISM, DRUG ABUSE

Basic Drugs in Urine - On-Line Analysis
Benzodiazepines in Urine - On-Line Analysis
CDT in Serum - Manual sample preparation
TOX.I.S

- Basic Drugs in Urine - On-Line Analysis
- Benzodiazepines in Urine-On-Line Analysis

• BIOGENIC AMINES

Catecholamines in Urine & Plasma
Metanephrines
VMA, HVA, 5-HIAA in Urine
Serotonin
- with manual and automatic sample preparation

• METABOLIC DISEASES

Porphyryns Differentiated in Urine
5-Aminolevulinic Acid
Porphobilinogen in Urine
Homocysteine in Plasma
Hydroxyproline in Urine

• THERAPEUTIC DRUG MONITORING

- Aminodarone / Desethylaminodarone
- Benzodiazepines & Tricyclic Antidepressants
- Antiepileptic drigs (incl. Lamotrigine, Trileptal,
Sultiam, Zonisamide)
- Levetiracetam - Mycophenolic Acid
- Olanzapine, Desmethyloanzapine
- Itraconazole, Posaconazole - Anti-HIV Drugs

• OXIDATIVE STRESS

Coenzyme Q10 in Whole Blood/Plasma/Serum
Carotene in Plasma / Serum
Glutathione in Whole Blood
Malondialdehyde in Plasma / Serum
Vitamin C in Plasma

• RISK FACTOR FOR ARTERIOSCLEROSIS

Homocysteine

• ANTIPSYCHOTIC DRUGS

A typical Neuroleptics in
Plasma / Serum - On-Line Analysis

• PHENYLALANINE (Phe, Tyr, Trp)

in Whole Blood, Plasma / Filterspots
Porphyryns Differentiated in Urine
Total Porphyryns in Urine

• VITAMIN STATUS

Vitamins A and E in Plasma
Vitamin B1 in Whole Blood
Vitamin B2 in Whole Blood
Vitamin B6 in Plasma / Whole Blood
Vitamins B1, B2, B6 (Combikit)
25-OH Vitamin D2 / D3 in Plasma / Serum

• METANEPHRINES IN URINE

- with manual and automatic sample preparation
Serotonin in Plasma
Serotonin in Urine

• OCCUPATIONAL MEDICINE

Hippurich Acid
Methyl Hippurich Acid,
Mendelic Acid
Phenyl Glyoxylic Acid
O-Cresol
P-Cresol & Phenol

• OSTEOPOROSIS DIAGNOSIS

Cross links (pyridiloline, Dioxypyridiloline)
25/OH/Vitamin, D3/D2

• PORPHYRYN PROFILING, AMINO ACIDS

BioLC™

Introduction:

Hemoglobin A1c(HbA1C) Hemoglobin variant are very useful tests in monitoring and diagnostic of Diabetic, Anemia, Sick Cell, Thalassemia patients, HbA1c is Measurement of the Mean Amount of Blood Glucose Present in the patient Over The Previous 3 months and is Therefore useful as monitoring & Diagnostic Tools.

Technology:

HbA1C 3000 Analyzer Uses the Established International Reference Method of ion Exchange Chromatography with HPLC Principle. It Uses The Micro Column And Reagents to Separate The HbA1 C From the Non Glycated Fraction.

HbA1C 3000 Uses Ion Exchange Chromatography In Conjunction with Gradient Elution to Separate Human Hemoglobin Subtypes and Variants from Hymolysed whole Blood, The Separated Hemoglobin Fractions are Monitored by means of Absorption of light And The Chromatogram Obtained is Recorded and Stored By Internal Computer. A software program in instrument performs the analysis of the Chromatogram Generates a results.

Performance Characteristics:

Method: Ion Exchange Chromatography with HPLC Principal

Automatic Sample Entry on Board Capacity of 50 sample or 120 samples

sample Cycle: < = 150s/TEST Good Precision : CV < = 2%

Expand Capacity :

Transmit Data Via Rs232

Print Test Result Automatically

Password Protected To Prevent Misuse

Sample Cycle : < = 150s/TEST (for HbA1 HPLC)

Testing:

Wavelength : 415NM (190- 700 for BioLC)

Measuring Range (NGSP VALUES): 4%-17 %, R> = 0.99

Precision: CV < = 2%

Automatic Mixing,barcode Reading and reagent Level Alarm

Power Source: Voltage : 220/240V

Current Frequency: 50-60Hz

Power: < = 100VA

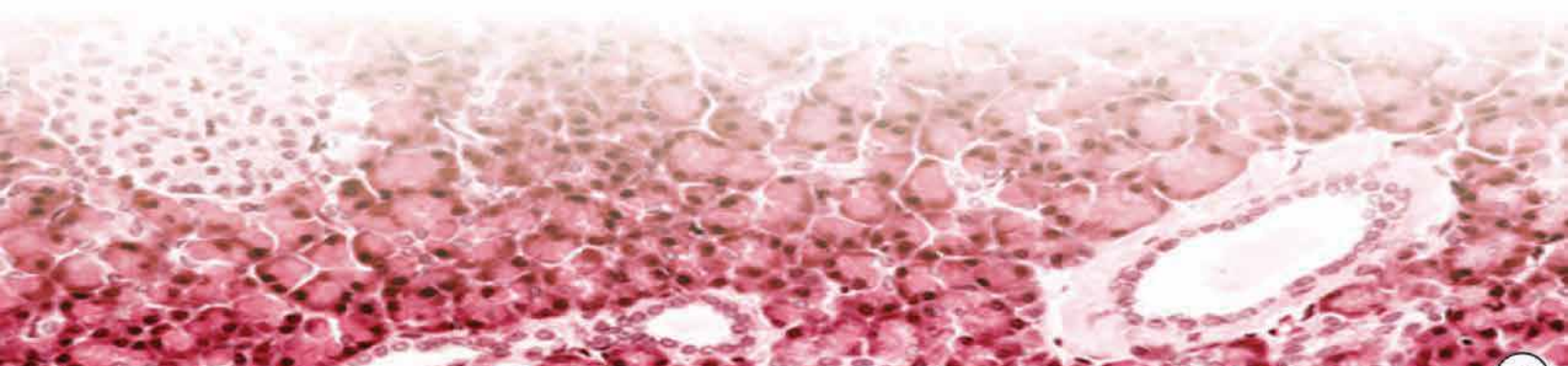
Dimensuions: L:W:H = 610MM*500MM*410MM

NetWeight: 28Kg

Optional Items :

Optional feature for HbA1c HPLC System

- 1 Automatic Mixing
- 2 Barcode Reading
- 3 Data Input: Touch Screen
- 4 Reagent Level Alarm
- 5 Eliminate Unstable HB and Identify Variant HB
- 6 Interface to Laboratory Information Management System (LIMS)
- 7 Automatic Identify The Sample Type: Diluent Mode Or Whole Blood Mode
- 8 Integral Thermal Printer
- 9 Autosampler (120 Samples)/Auto Loader (50 Samples)

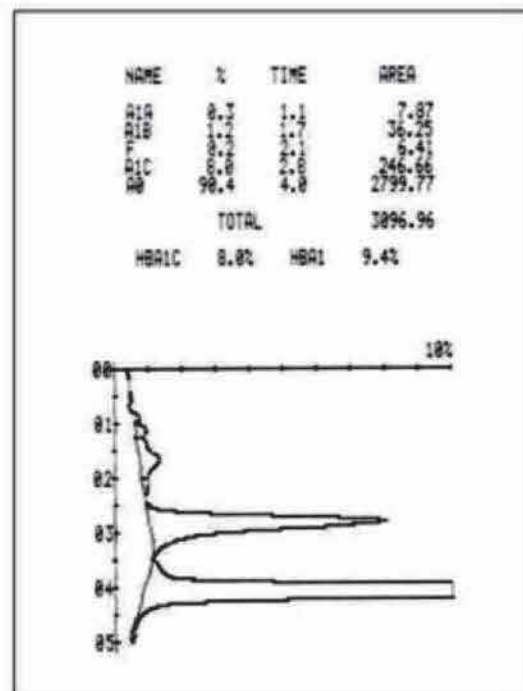


Testimonials / Chromatograms



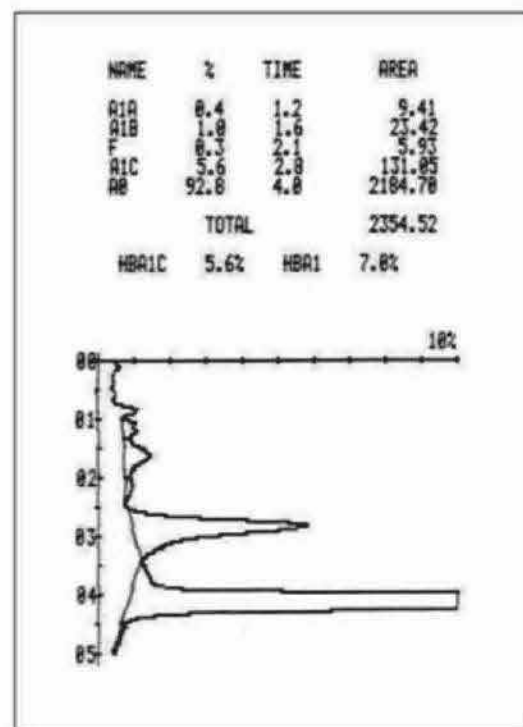
Chromatogram of the HbA1c reference standard
(Order no 31011): (Graph -1)
HbA1HPLC, 5-min Program

Retention Time:
HbA1a: 1.01min
Hba1b: 1.7 min
Hb F: 2.1 min
HbA1c: 2.8 min
Hb O: 4.0 min



Chromatogram of a hemolysed non-diabetic
whole blood sample
(Graph 2)HbA1HPLC, 5-min Program

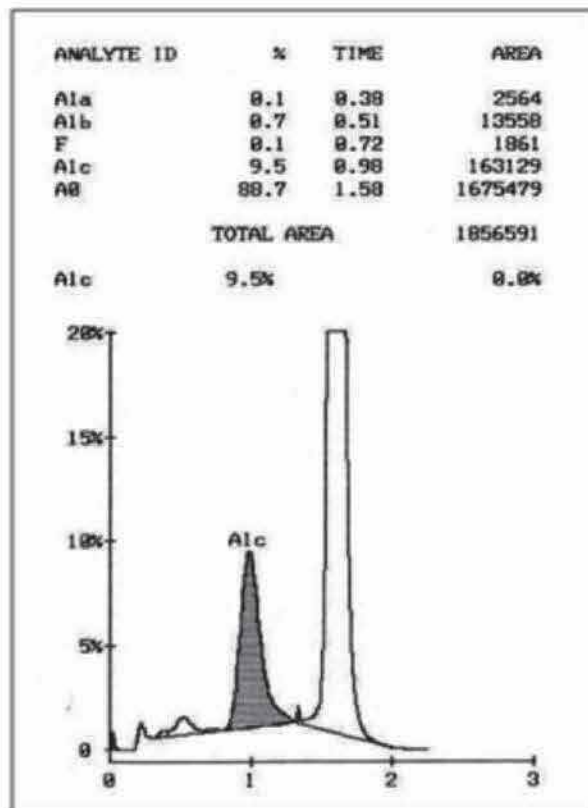
Retention Time:
HbA1a: 1.2min
Hba1b: 1.6 min
Hb F: 2.1 min
HbA1c: 2.8 min
Hb O: 4.0 min



Testimonials / Chromatograms

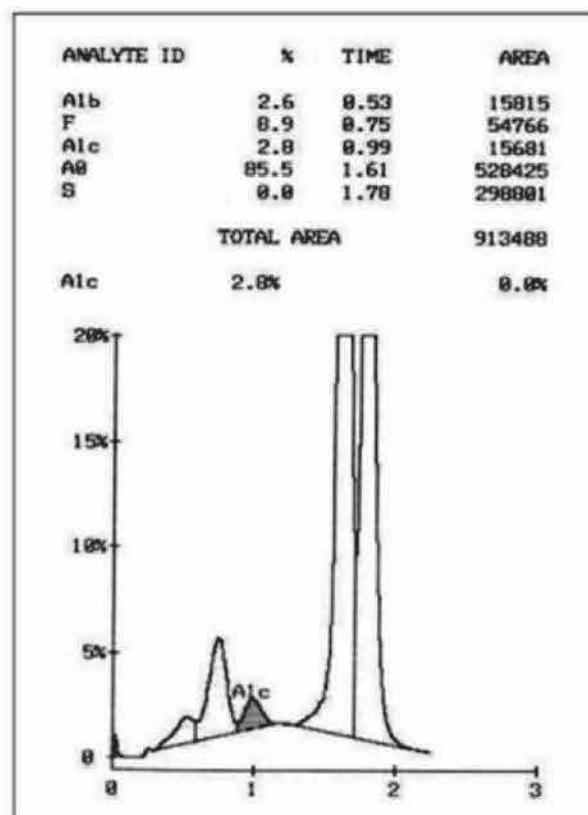
Chromatogram of a hemolysed diabetic whole blood sample
(Graph 3) HbA1HPLC

Retention Time:
 HbA1a: 0.38 min
 Hba1b: 0.51 min
 Hb F: 0.72 min
 HbA1c: 0.98 min
 Hb O: 1.58 min



Chromatogram of a hemolysed whole blood sample with increased Hb F and heterozygote Hb S
(Graph4) HbA1HPLC

Retention Time:
 HbA1b: 0.53 min
 Hb F: 0.75 min
 HbA1C: 0.99 min
 HbA O: 1.61 min
 Hb S: 1.78 min

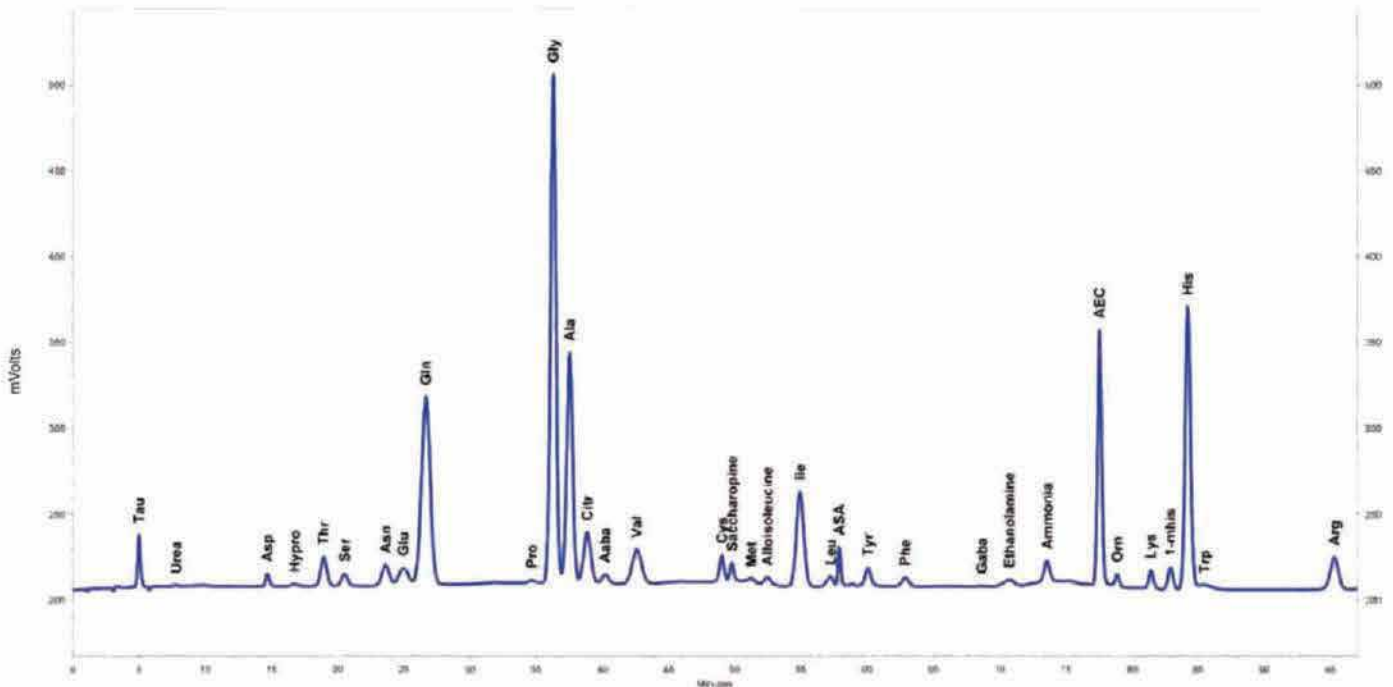
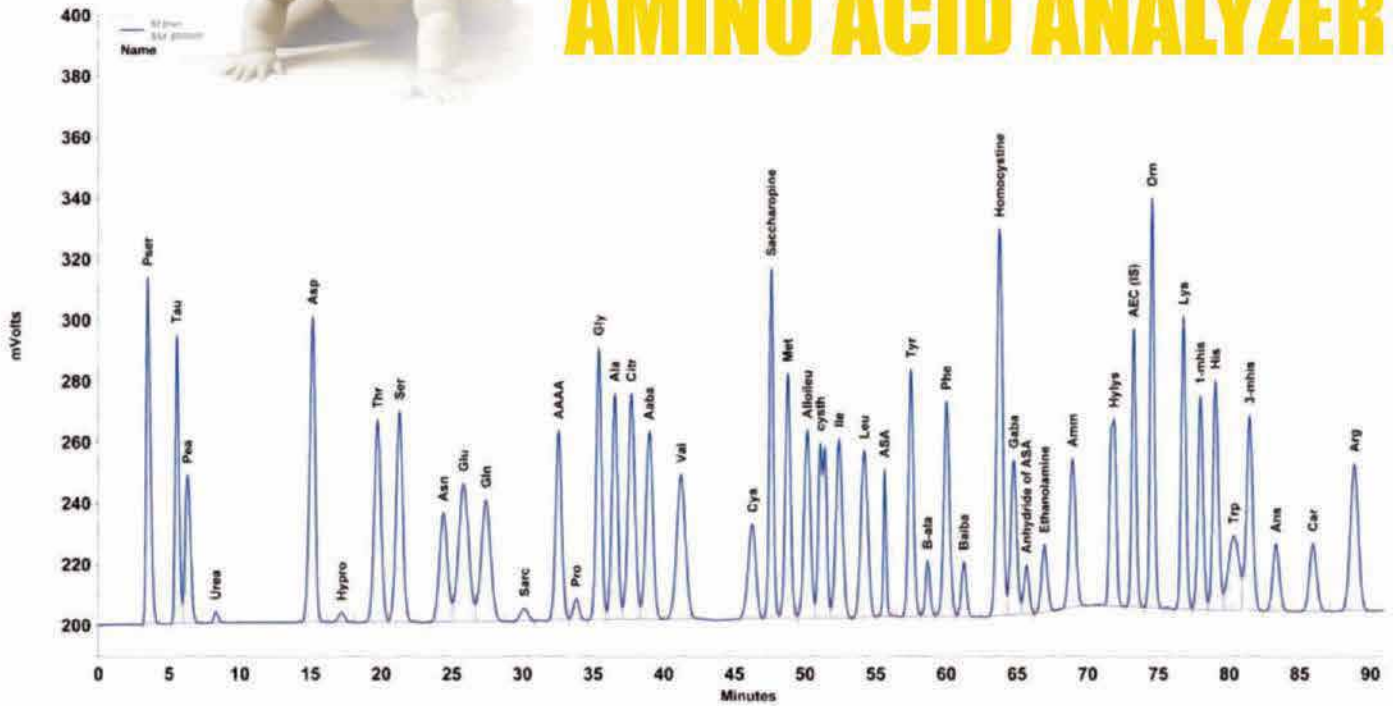


Testimonials / Chromatograms

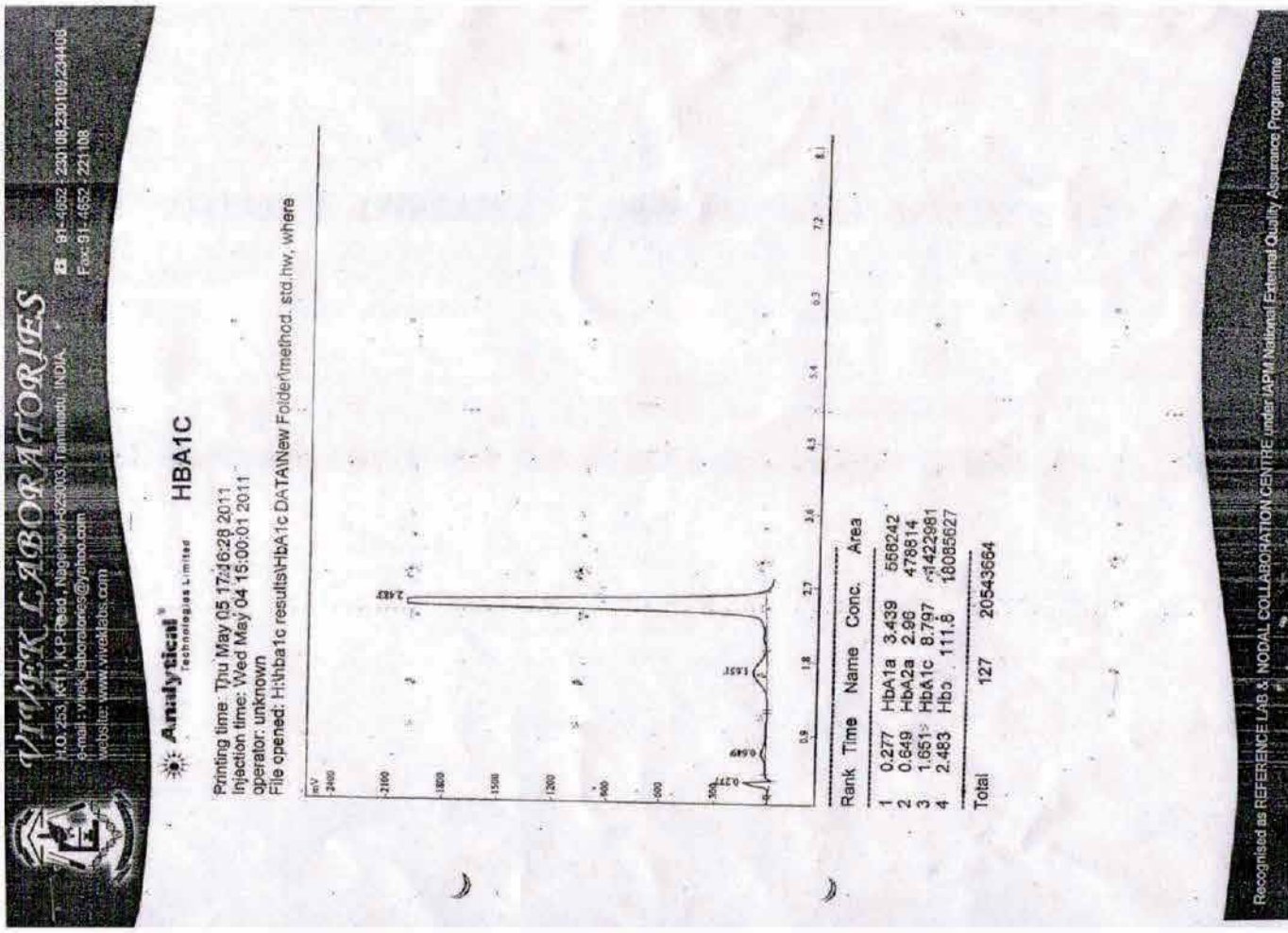
Automated Amino Acid Analysis by NIN Hydrin Method of Post Column derivation. High Sensitivity and High resolution is achieved for all Amino Acids.



AMINO ACID ANALYZER



HbA1c Chromatogram Reports



Recognised as REFERENCE LAB & NODAL COLLABORATION CENTRE under IAPM National External Quality Assurance Programme

HbA1c Satisfactory Certificate

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 Fax: 91-4652-221108
 e-mail: vivek_laboratories@yahoo.com
 website: www.viveklabs.com

Certificate of Satisfaction

This is to certify that Mr. Ramesh Raj Service Engineer from Analytical Technology Ltd, installed HPLC for HbA1c-parameter on 06th May 2011 and given a demo about the instrument. We appreciate that his performance was fully satisfied.

Dr. S. K. Srinivasa Kannan, M.B.B.
 PATHOLOGIST
 VIVEK LABORATORIES
 NAGERCOIL - 3

Dr. Srinivasa Kannan MD (Path)
 Vivek Laboratories
 Nagercoil

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►► Our Products And Technologies



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UFLC / UPLC / nanoLC™



HEMA 3210
Fully-automatic
Hematology Analyzer



NOVA 2300
Auto
Chemistry Analyzer



URINOVA 2800
Urine Analyzer



Fully Automated
CLIA



Micro Plate
Reader / Washer



Amino Acid
Analyzer



NOVALYTE 2200
Electrolyte Analyzer



NOVA Basic Semi - Auto
Chemistry Analyzer



Kidney Stone
Analyzer



MRI CT Scanner



PCR/Gradient PCR/RT PCR



5 part
Hematology Analyzer



Blood Gas Analyzer



Portable POC
Blood gas Analyzer



Random access analyzer
for immunoassay,
proteins & clinical chemistry



Revolutionary automation
in neonatal screening



SPECTRO 2092



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Urine Strips



Rapid Diagnostic kits



Hematology
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