

BioLC



HbA1c HPLC

EPC / PRODUCTS / APPLICATION / SOFTWARE / ACCESSORIES / CONSUMABLES / SERVICES

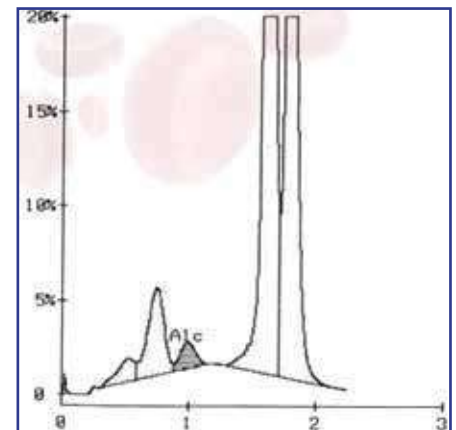
Analytical Technologies Limited

An ISO 9001 Certified Company

www.analyticalgroup.net

ANALYTE ID	%	TIME	AREA
Aib	2.6	0.53	15815
F	8.9	0.75	54766
Alc	2.8	0.99	15681
A0	85.5	528425	
S	0.0	1.78	29881

TOTAL AREA		
Alc	2.8%	0.0%



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

▶▶ Diabetes, Hemoglobins:

Hemoglobin Variants / Hemoglobin A1c (HbA1c)
 BThalassemia Screening in Whole Blood, HbA₂,
 HbA, HbF, HbS, HbD, HbE, HbC
 HbQ-Iran, HbH, HbJ Meerut.
 For Variant™ and BioLC OR hba1 HPLC
 Hemoglobin A1c (HbA1c) in Whole Blood
 with Diamattm™

▶▶ 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

▶▶ 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

▶▶ Therapeutic Drug Monitoring :

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

▶▶ **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
Porphyrins Differentiated in Urine
Total Porphyrins in Urine

▶▶ **Vitamin Status :**

Vitamins A and E in Plasma
Vitamin Bi in Whole Blood
Vitamin B2 in Whole Blood
Vitamin B6 in Plasma / Whole Blood
Vitamins Bi, 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, Dioxy pyridiloline)
25/OH/Vitamin, D3/D2

▶▶ **Porphyrin Profiling :**

▶▶ **Amino Acids :**

**BioLc is the First of its kind state of the art
Technologies for Clinical & Medical Diagnostics**

HbA1C HPLC

▶▶ **Introduction :**

Hemoglobin Alc(HbA1C)Hemoglobin venant are very useful tests in monitoring and diagnostis of diabetic,anemia,Sickal Cell, Thalassemia patients, HbAlc is Measurement of the Mean Amount of Blood Glucose Present in the patient Over The Previou s3 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 Ragents 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 Venants 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 results.

▶▶ **Performance Characteristics :**

Method: Ion Exchange Chromatography with HPLC Principal Automatic Sample Entry on Board
Capacity of 50 sample or 120 samples sample Cycle: ≤ 1 50s/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)
Spinning of vacutainer before aspiration to avoid improper sampling
Built column thermostat for reproducibility of results.

▶▶ **Testing :**

Wavelength: 415NM (190- 700 for BioLC)
Measuring Range (NGSP VALUES): 4%-17 %, R² = 0.99
Precision: CV ≤ 2%
Automatic Mixing, barcode Reading and reagent Level Alarm
Power Source: Voltage: 220/240V
Current Frequency: 50-60Hz
Power: ≤ 1 OOVA
Dimensions: L:W:H = 610MM*500MM*410MM
Net Weight: 28Kg

▶▶ **Optional Items :**

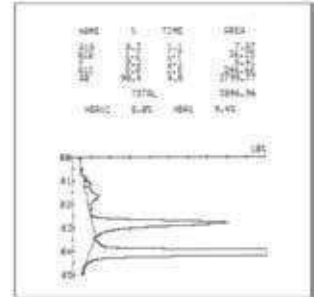
Optional feature for HbA1c HPLC System

- 1 Automatic Mixing
- 2 Barcode Reading
- 3 Data Input: Touch Screen
- 4 Reagent Level Alarm
- 5 Eliminate Unstable RB and Identify Variant RB
- 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 11011):
 HbA1c analyzer Diamat, 5-min Program

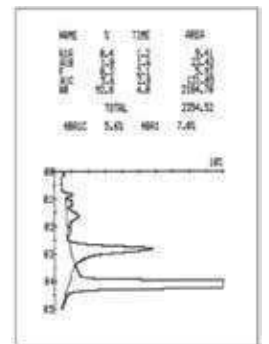
Retention Time:
 HbA1a: 1.01mm
 Hbalb: 1.7 min
 HbF: 2.1 min
 HbA1c: 2.8 min
 HbO: 4.0 min



Chromatogram of a hemolysed nondiabetic whole blood sample

HbA1c analyzer Diamat, 5-min Program

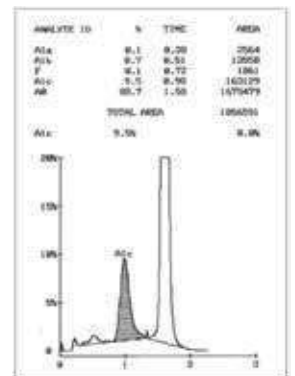
Retention Time:
 HbA1a : 1.2mm
 Hbalb : 1.6 min
 HbF : 2.1mm
 HbA1c : 2.8 min
 HbO : 4.0 min



Chromatogram of a hemolysed diabetic whole blood sample

HbA 1 c analyzer Variant

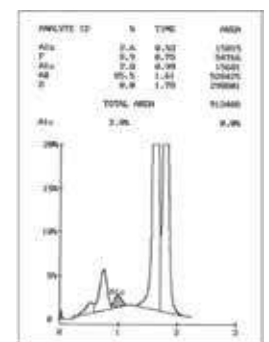
Retention Time:
 HbA1a: 0.38 min
 Hbalb: 0.51 min
 HbF: 0.72 min
 HbA1c: 0.98 min
 HbO: 1.58mm



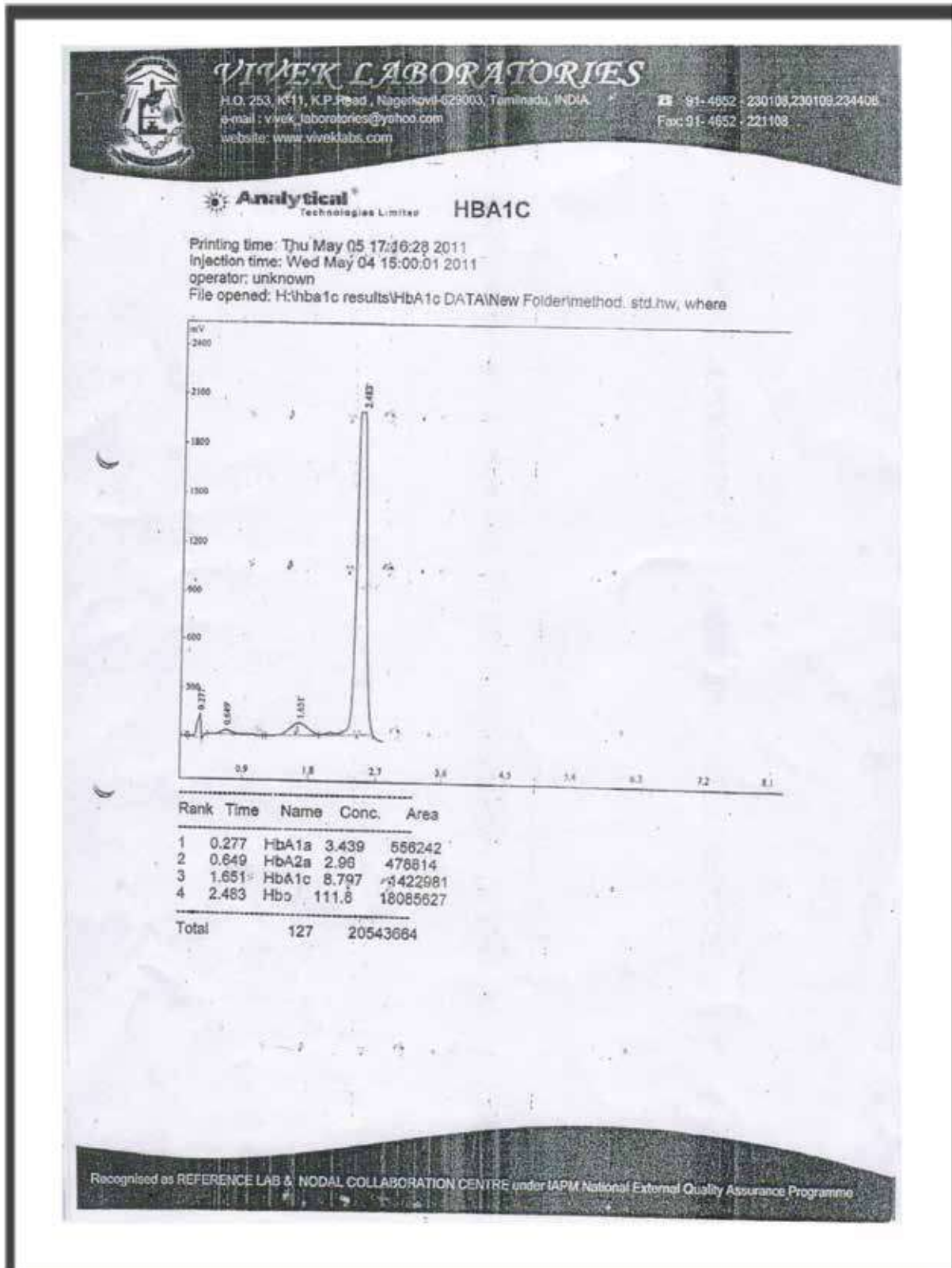
Chromatogram of a hemolysed whole blood sample with increased Hb F and heterozygote Hb S

HbA1c analyzer Variant


Retention Time
 HbAlb : 0.53 min
 HbF : 0.75 min
 HbA1C : 0.99min
 HbA 0 : 1.61 min
 HbS : 1.78 min



HbA1c Chromatogram Report



HbA1c Satisfactory Certificate

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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 6, 2011 and given a demo about the instrument. We appreciate that his performance was fully satisfied.

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

Dr. Srinivasa Kannan MD (Path)
Vivek Laboratories
Nagercoil

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

▶▶ **Regulatory compliances**



▶▶ **Corporate Social Responsibility**

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Analytical
Foundation

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2. Improving quality of life by offering YOGA Training courses, Work shops / Seminars etc.

3. ANALYTICAL FOUNDATION aims to DETOXYFY human minds, souls and body by means of Yoga, Meditation, Ayurveda, Health Care, Awards, Media, Events, Camps etc.

▶▶ **Reach us @**



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