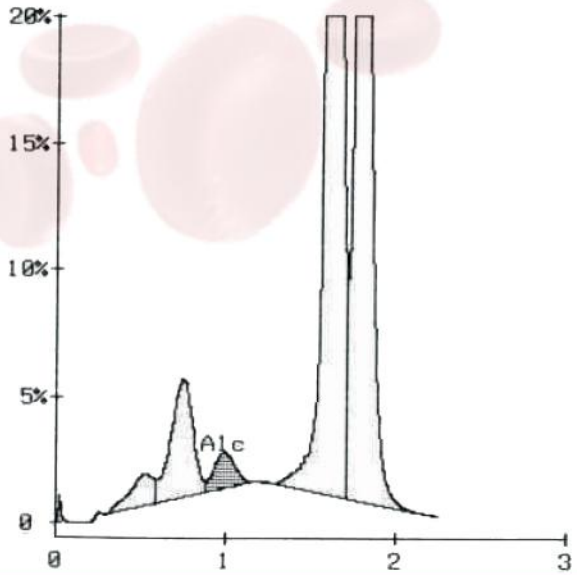
ISO 9001 CE

Analytical®
Liquid Chromatography

BioLC

ANALYTE ID	%	TIME	AREA
A1b	2.6	0.53	15815
F	8.9	0.75	54766
A1c	2.8	0.99	15681
A0	85.5	1.61	528425
S	0.0	1.78	298801
	TOTAL AREA		913488
A1c	2.8%		0.0%



HbA1HPLC

Products | Applications | Software | Accessories | Consumable | Services

Analytical Technologies Limited
www.ais-india.com

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

Diabetes, Hemoglobins

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
Metaneprines
VMA, HVA, 5-HIAA in Urine
Serotonin
- with manual and automatic sample preparation

Metabolic Diseases

Porphyrins 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 / Desethylamiodarone
- Benzodiazepines & Tricyclic Antidepressants
- Antiepileptic drigs (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 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

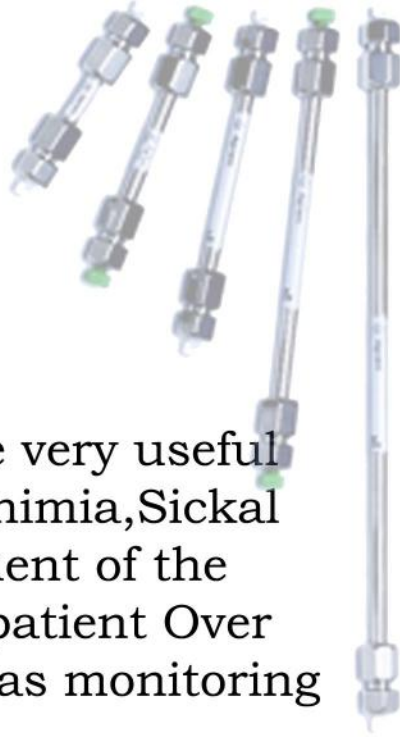
Cross links (pyridiloline, Dioxy pyridiloline)
25/OH/Vitamin, D3/D2

Porphyrin Profiling

Amino Acids

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

HbA1C HPLC



Introduction:

Hemoglobin A1c(HbA1C)Hemoglobin veriant are very useful tests in monitoring and diagnostis of diabetic,animia,Sickal 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.

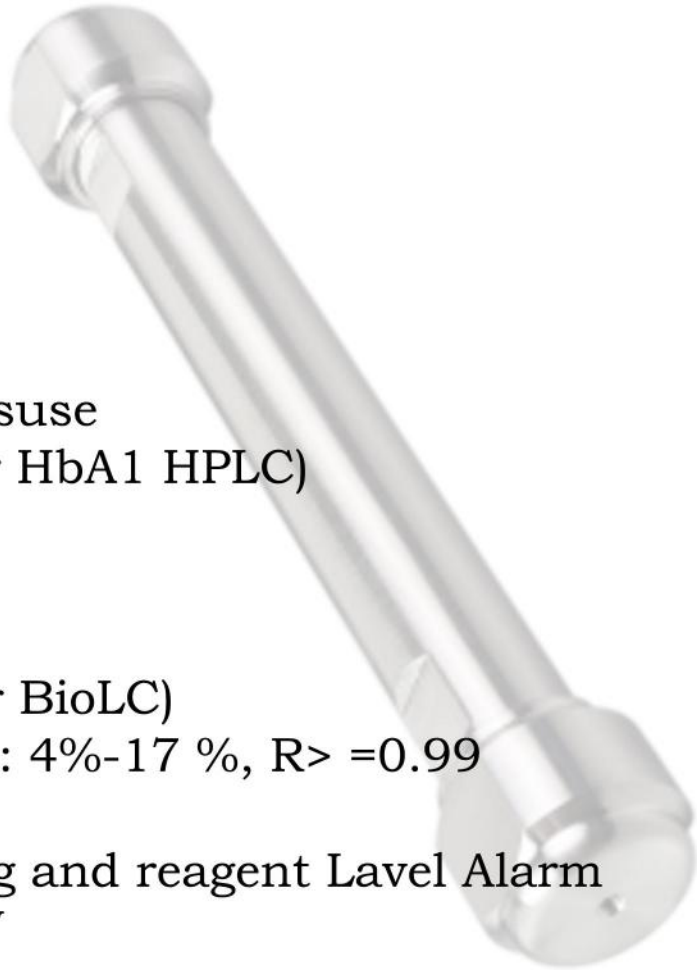
Technology:

HbA1C 3000 Analyzer Uses the Established International Reference Method of ion Exchange Chromatography with HPLC Principle. It Uses The Micro Column And 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 Veriants 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:<=15Os/TEST Good Precision : CV <=2%



Expand Capacity :

Transmit Data Via RS232
Print Test Result Automatically
Password Protected To Prevent Misuse
Sample Cycle : < =15Os/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 Lavel 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)

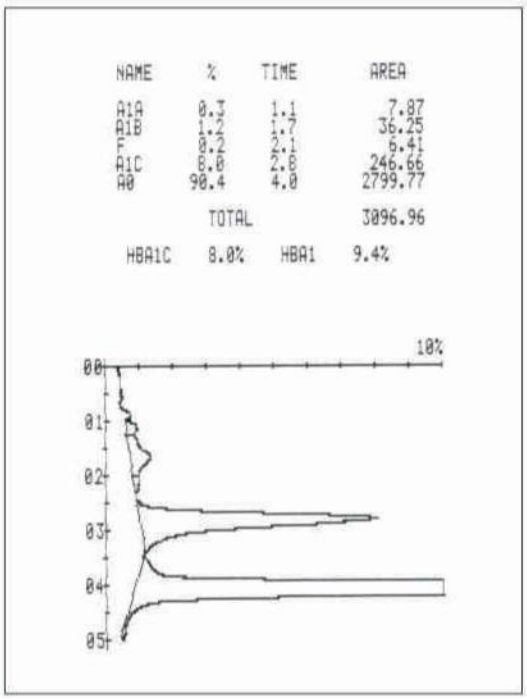
Testimonials / Chromatograms

Chromatogram of the HbA1c reference standard (Order no 11011):

HbA1c analyzer Diamat, 5-min Program

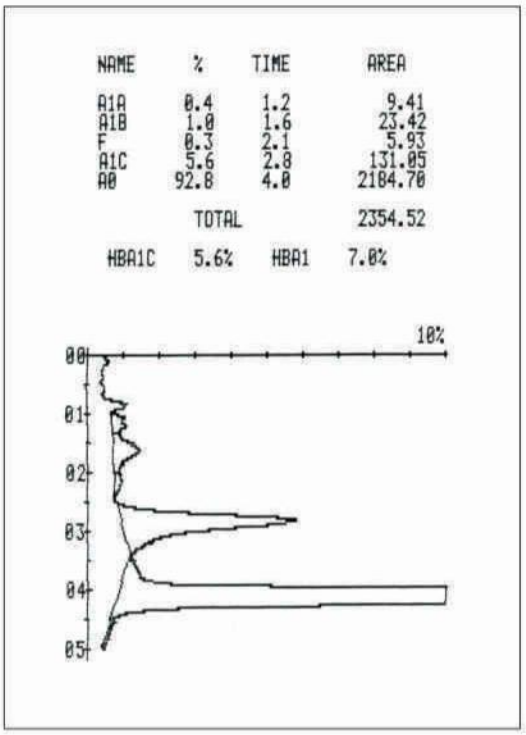
Retention Time:

HbA1a: 1.01min
Hba1b: 1.7 min
Hb F: 2.1 min
HbA1c: 2.8 min
Hb 0: 4.0 min



NAME	%	TIME	AREA
A1A	0.3	1.1	7.87
A1B	1.2	1.7	36.25
F	0.2	2.1	6.41
A1C	8.0	2.8	246.66
A0	90.4	4.0	2799.77
	TOTAL		3096.96

HBA1C 8.0% HBA1 9.4%



NAME	%	TIME	AREA
A1A	0.4	1.2	9.41
A1B	1.0	1.6	23.42
F	0.3	2.1	5.93
A1C	5.6	2.8	131.05
A0	92.8	4.0	2184.70
	TOTAL		2354.52

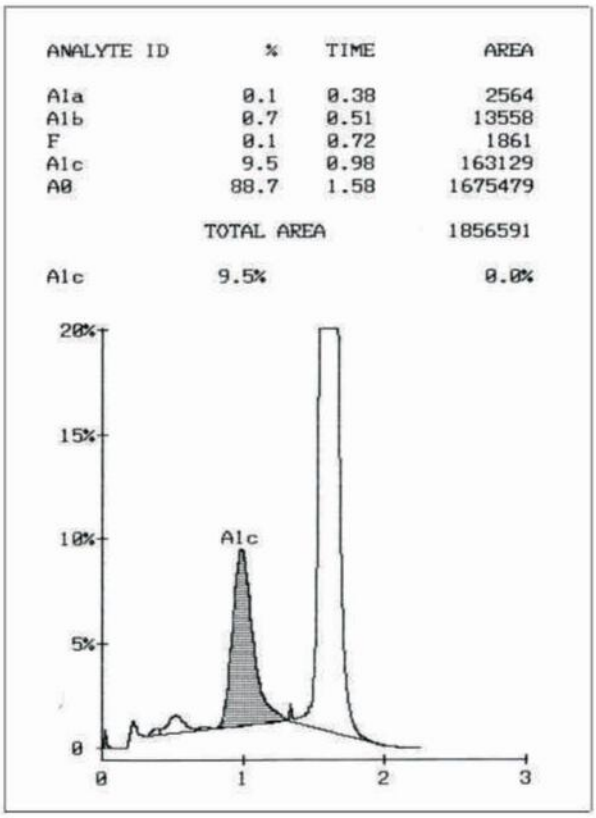
HBA1C 5.6% HBA1 7.0%

Chromatogram of a hemolysed non-diabetic whole blood sample

HbA1c analyzer Diamat, 5-min Program

Retention Time:

HbA1a: 1.2min
Hba1b: 1.6 min
Hb F: 2.1 min
HbA1c: 2.8 min
Hb 0: 4.0 min



ANALYTE ID	%	TIME	AREA
A1a	0.1	0.38	2564
A1b	0.7	0.51	13558
F	0.1	0.72	1861
A1c	9.5	0.98	163129
A0	88.7	1.58	1675479
	TOTAL AREA		1856591
A1c	9.5%		0.0%

Chromatogram of a hemolysed diabetic whole blood sample

HbA1c analyzer Variant

Retention Time:

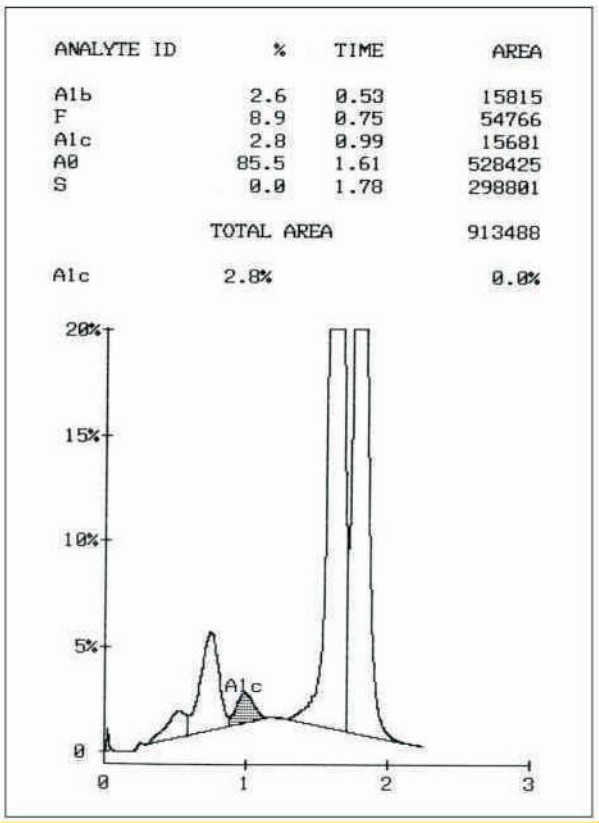
HbA1a: 0.38 min
Hba1b: 0.51 min
Hb F: 0.72 min
HbA1c: 0.98 min
Hb 0: 1.58 min

Chromatogram of a hemolysedwhole blood sample with inceased Hb F and heterozygate Hb S

HbA1c analyzer Variant

Retention Time:

HbA1b: 0.53 min
Hb F: 0.75 min
HbA1C: 0.99 min
HbA 0: 1.61 min
Hb S: 1.78 min



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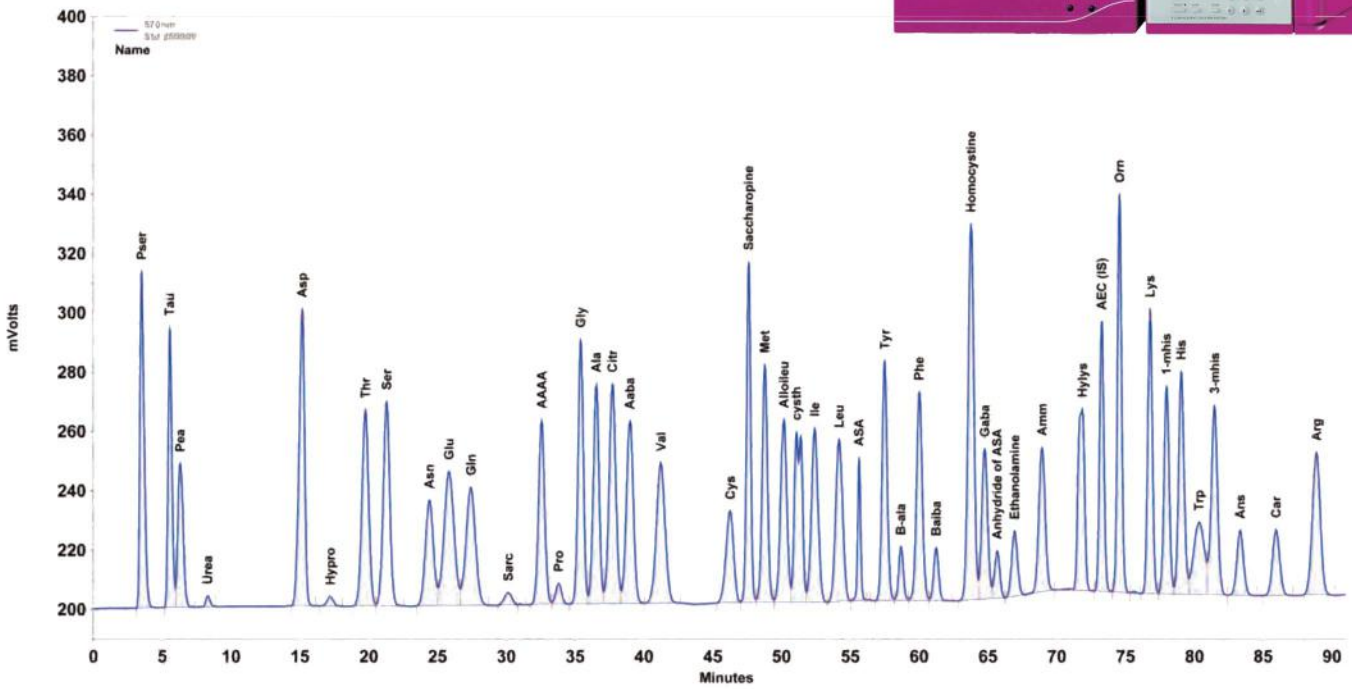
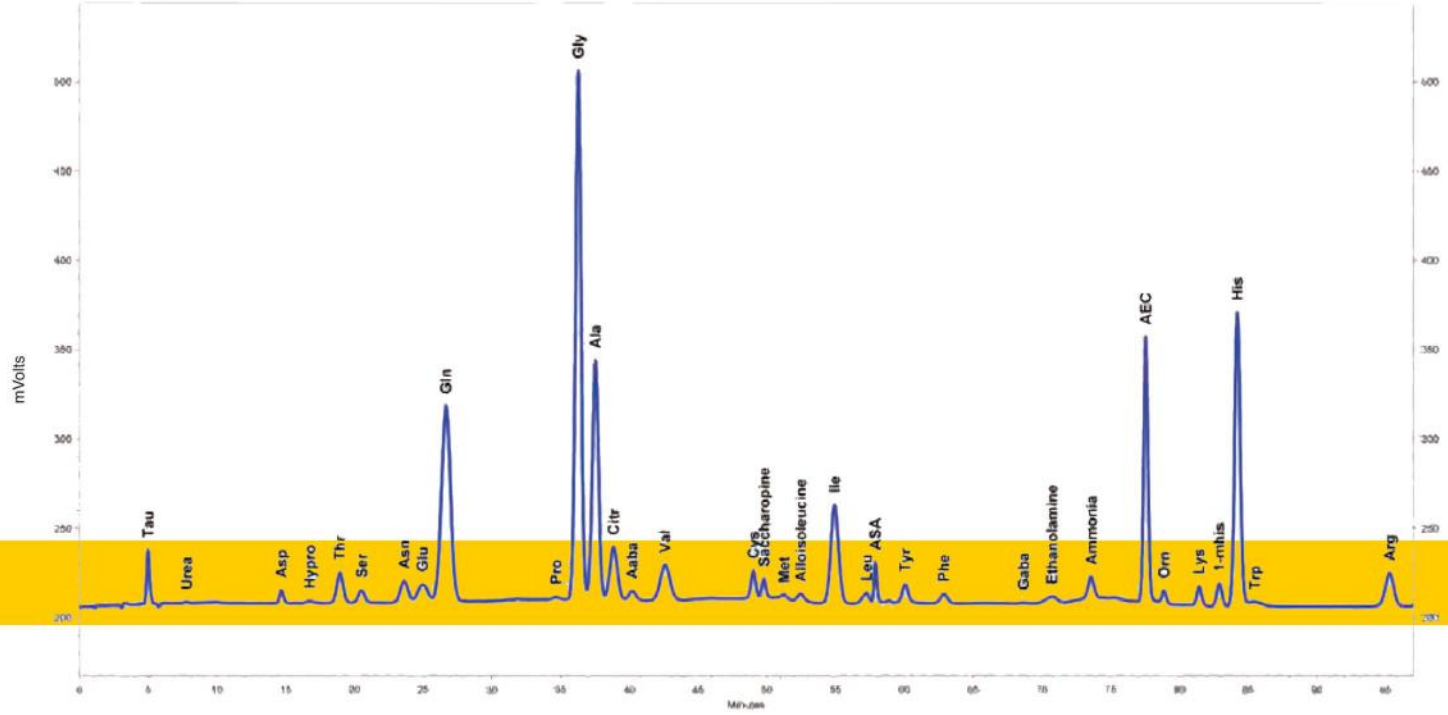
	TOTAL AREA		913488
A1c	2.8%		0.0%

Amino Acid Analyzer





HbA1c Chromatogram Report

VIVEK LABORATORIES
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e-mail : vivek_laboratories@yahoo.com
website: www.viveklabs.com
91-4652 - 230108,230109,234406
Fax: 91-4652 - 221108

Analytical Technologies Limited

HBA1C

Printing time: Thu May 05 17:16:28 2011
Injection time: Wed May 04 15:00:01 2011
operator: unknown
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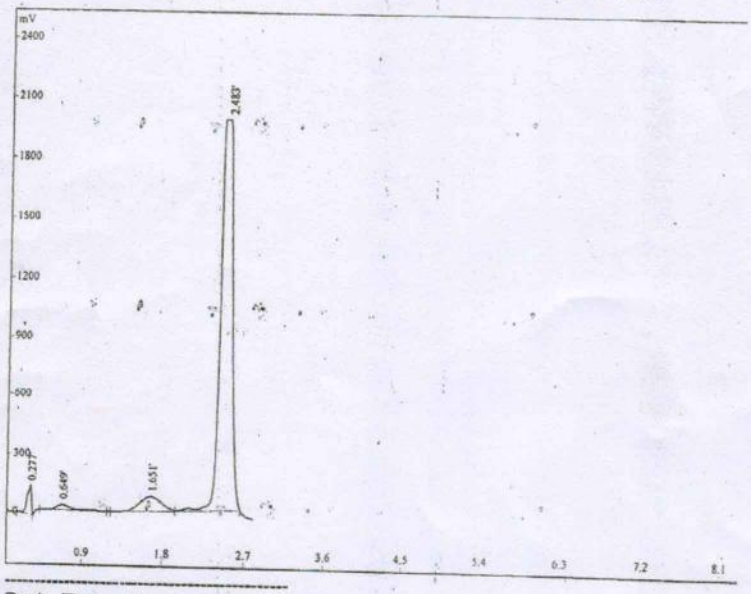
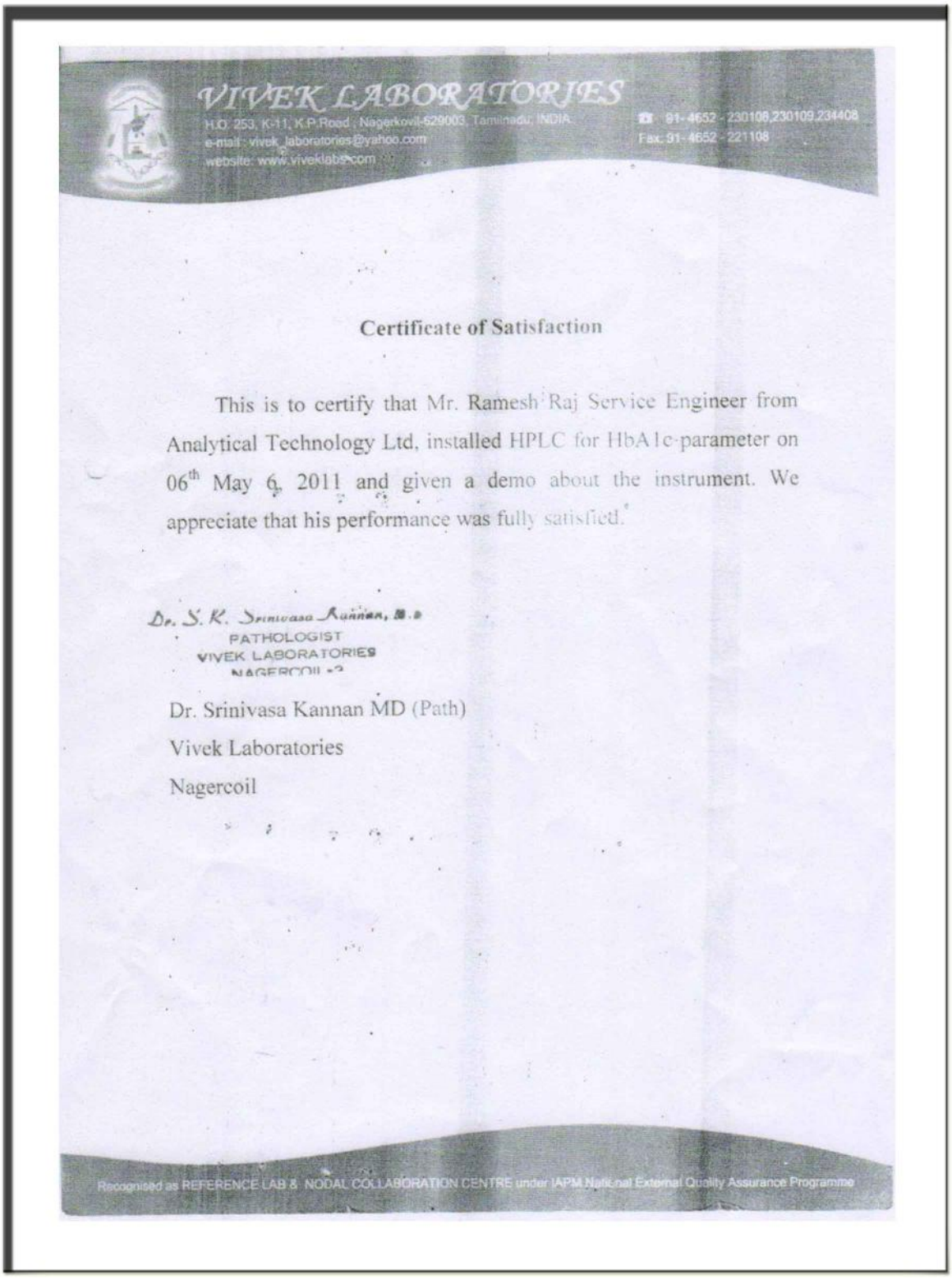


Rank	Time	Name	Conc.	Area
1	0.277	HbA1a	3.439	556242
2	0.649	HbA2a	2.96	478814
3	1.651	HbA1c	8.797	1422981
4	2.483	Hbo	111.8	18085627
Total			127	20543664

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

HbA1c Satisfactory Certificate



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website: www.viveklabs.com

☎ 91-4652 - 230108,230109,234408
Fax: 91-4652 - 221108

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 -2

Dr. Srinivasa Kannan MD (Path)
Vivek Laboratories
Nagercoil

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

Our Products & Accessories

Hematology Analyzer

Automated Chemistry Analyzer

Blood Gas Analyzer

Medical Diagnostic kit

Urine Strips

CLIA

RT-PCR
PCR/Gredient PCR

Urin Analyzer

Bio Chemistry Reagents

Micro Plate Washer

Electrolite Analyzere

Micro Plate Reader

Hematology Reagent

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Analytical Group Companies
Analytical Technologies Limited
Analytical Bio-Technologies
Analytical Bio-Med
HPLC Solution

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