



**PROFICIENCY TESTING REPORT**  
**ISHTM-AIIMS EXTERNAL QUALITY ASSURANCE PROGRAMME**  
 NABL accredited program as per ISO/IEC 17043:2010 standard  
 Organized By Department of Hematology, AIIMS, New Delhi-110029



*Duration of stability testing - minimum upto 8 days at ambient temp. after dispatch of specimens*

EQAP CODE No. : 2386

Distribution No.: 153-F

Month/Year: August/2021

Instrument ID: Swelab Alfa, ST-12613, SN15514

Name & Contact No. of PT Co-ordinator: Dr. Seema Tyagi (Prof.), Hematology, AIIMS, Delhi,  
 Tel: 9013085730 , E-Mail : accuracy2000@gmail.com

Date of issue &amp; status of the report: 09-10-2021[Final].

### CBC and Retic Assessment

Test Parameters	S.No.	Among Lab (Accuracy Testing)						Within Lab (Precision Testing)			
		Your Result 1	Your Result 2	Your Results Sum of 2 Value	Consensus result sum of 2 values (Assigned Value)	Uncertainty of Assigned Values	Z Score	Yours Results Diff. of 2 Values	Consensus Result Diff. of 2 values (Assigned Value)	Uncertainty of Assigned Values	Z Score
WBC x10 <sup>3</sup> /µl	1	3.5	3.4	6.9	6.85	0.0220	0.11	0.1	0.1	0.0070	0.00
RBC x10 <sup>6</sup> /µl	1	5.22	4.97	10.19	10.14	0.0130	0.21	0.25	0.04	0.0090	4.05
Hb g/dl	1	15.4	15.1	30.5	31.3	0.0350	-1.08	0.3	0.1	0.0100	1.35
HCT%	1	53.5	51.3	104.8	99.55	0.2970	0.81	2.2	0.4	0.0320	4.05
MCV-fl	1	103.1	102.3	205.4	196	0.4830	0.80	0.8	0.3	0.0320	1.12
MCH-Pg	1	30.9	29	59.9	61.9	0.0920	-1.04	1.9	0.2	0.0190	7.06
MCHC-g/dl	1	30	28.3	58.3	62.65	0.1920	-1.00	1.7	0.3	0.0250	4.72
Plt. x10 <sup>3</sup> /µl	1	153	137	290	360	1.97	-1.66	16	5	0.41	1.85
Retic %	2	2.3	2.2	4.5	5.15	0.19	-0.13	0.1	0.2	0.03	-0.34

### P.S . Assesment

YOUR REPORT		CONSENSUS REPORT
DLC%	3	Nrbcs=02 , Poly=15 L=08, E=, Mono/Promono=24 , B1=28 P.M.=, Mye=16, Meta=07, Other=
RBC Morphology	3	Blast: 25-65, Poly: 10-20, Lympho/Myelo/Promyelo/Meta/Mono: 1-15, nRBC/Eos/Baso: 0-5
Diagnosis	3	MICROCYTIC HYPOCHROMIC, MICRONORMOCYTIC, ELLIPTOCYTE
		Predominantly: Normocytic/Normochromic; Moderate: Microcytosis, Hypochromia, Anisocytosis; Mild: Macrocytosis, Poikilocytosis
		Acute Leukemia ? AMLM4
		Acute Myeloid Leukemia

EQAP Code No.:  
2386

Distribution No.: 153-F Month/Year: August/2021

Instrument ID: Swelab Alfa, ST-12613,  
SN15514**COMBINED DATA VALUES OF TOTAL PARTICIPANTS**

Test parameters	S.No.	Total participants covered in the current dist.	Total No. responded	% of Labs with Z Score 0-2		% of Labs with Z Score 2-3		% of Labs with Z Score >3	
				Among labs	Within lab	Among labs	Within lab	Among labs	Within lab
WBC x10 <sup>3</sup> /µl	1	209	207	84.54	94.2	2.42	1.45	13.04	3.86
RBC x10 <sup>6</sup> /µl	1	209	208	87.5	87.02	6.73	4.33	5.77	8.65
Hb g/dl	1	209	208	88.94	85.1	3.85	0.48	7.21	10.1
HCT%	1	209	208	91.35	82.69	5.29	5.77	3.37	11.54
MCV-fl	1	209	208	95.19	89.9	3.85	2.4	0.96	7.69
MCH-Pg	1	209	208	88.46	87.98	5.77	3.85	5.77	8.17
MCHC-g/dl	1	209	208	92.31	87.98	6.25	6.25	1.44	5.77
Plt. x10 <sup>3</sup> /µl	1	209	208	91.83	87.02	4.81	5.77	3.37	7.21
ReticCount%	2	209	168	88.1	93.45	5.95	0	3.57	6.55
PS Assessment	3	209	188	Acceptable:78.3%,Warning Signal:11.4%,Unacceptable :10.3%					

**\*Comments:**

1). **Among Lab (EQA) : Results acceptable.**

2). **Within Lab (IQA) : Difference in the CBC measurement values for RBC, HCT, MCH & MCHC unacceptable, please check precision/human error.Remaining precision acceptable.**

**Note-1: EQA** (External Quality Assurance) : Your Performance among various of participating labs in PT, to determine the accuracy of your results.

**IQA** ( Internal Quality Assurance) : Your Performance of comparison of two consecutive measurement values within your lab to test the precision of your autoanalyzer.

**Note-2:** Z score among & within lab were calculated, as per to ISO/IEC 13528:2015 standard. Z score among lab (EQA)= (Your Result Sum of two values - Consensus Result sum of two values)/(Normalised IQR)

Z score within lab (IQA)= (Your Result Difference of two values - Consensus Result difference of two values)/(Normalised IQR)

IQR = Quartile 3 - Quartile 1 of participant data, Normalised IQR = 0.7413 x IQR

**Note-3:** Z score 0 to ±2: Acceptable, Z score ±2 to ±3 :Warning Signal, Z score > ±3 : Unacceptable [As per ISO/IEC 13528:2015 standard]

**Note-4:** Z score value between "0 to ±2" are texted in green colour. Z score value between "±2 to ±3" are texted in orange colour. Z score value > ±3 are texted in red colour.

**Note-5:** Homogeneity and stability testing of PT sample were done as per ISO 13528:2015 standard. To pass homogeneity test, between sample SD (Ss) should be smaller than the check value (0.3\*SDPA). To pass the stability test, average difference in measurement values of first and last day sample ( $\bar{x}-\bar{y}$ ) should be smaller than the check value (0.3\*SDPA).

**Note-6:** ISHTM-AIIMS-EQAP does not subcontract any task of its scheme

**Note-7:** Participants are free to use methods/analyzer of their own choice.

**Note-8:** Proficiency testing (PT ) samples are sent quarterly to each participant.

**Note-9:** All the necessary details regarding design and implementation of PT, are provided in the instruction sheet as well as on programme's website www.ishtmaiimseqap.com.

Report authorized by,



Dr. Seema Tyagi (Prof.)

PT Co-ordinator: ISHTM-AIIMS-EQAP

Department of Hematology, AIIMS, New Delhi

-----End Of Report-----



COSMOS CLINICS AND DIAGNOSTICS  
#503, SMV Arcade, Andrahalli Main Road, Syndicate  
Bank Layout, Bengaluru- 560091

Title			
Document Type	Format	Document Number	CCD.LAB.FR.002
Prepared By	Mamatha	Checked by/Approved	Tanveer /Dr.Nirupama.S
Revision No.	0	Issue Date	

Laboratory: ONCOSTEM DIAGNOSTICS PVT. LTD.

Date: 11/10/2021

Area of NC occurrence:

PT A11M11 EQAS.

NC No.

Major/minor

Non-Conformity (NC) Raised:

RBC, Hct, MCH, MCHC - outlier,

Immediate corrective action :

PCBing checked, IQC carried out daily IQC with sponge, interlab comparison within range.

Root cause analysis:

- Calibration due, recalibration done and factor setting caused-out; QC pre calibration and post calibration done - Results acceptable.

CORRECTIVE ACTION PROPOSED:

- Corrective Action taken, Interlab. comparison done.

EVIDENCE OF IMPLEMENTATION FOR CONTINUAL IMPROVEMENT:

- To check daily QC for any outlier. and compare with EQAS next batch results.

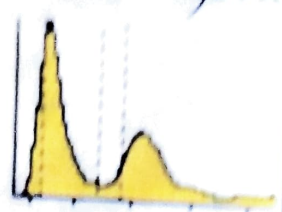
VERIFIED BY:

alfa

ID: CALIBRATION VALUE: (Normally 1000) (Base Cal) 2000

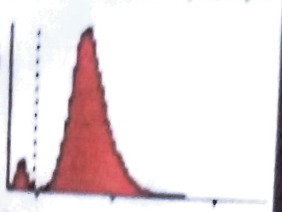
**WBC** 8.5 ER

LYM	37	EP	44	3%
MID	05	EP	51	%
GRAN	43	EP	50	6%



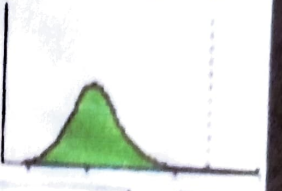
**HGB** L 11.4 ER

MCH	27.5	MCHC	35.6
-----	------	------	------



**RBC** 4.16 ER

MCV	77.2	RDW	42.6
HCT	L 32.1	RDW%	12.6



**PLT** 244 ER

MPV	10.7	PDW	10.3
LPCR	27.9	PCT	0.26



▲ Prev

SEQ 7734

▼ Next

1/3

Sample

List

Menu

Print

New Sample

Red button

*Ruipen*

Swelab



DIAGNOCARE LIFE SCIENCES PVT. LTD.

Old # 127B, Bricklin Road, Ground Floor, Purasaivakkam,  
Chennai - 600007, Phone : 044 - 4262 0091,  
Cell: 9750322013, E-mail : service@dcls.in

DIAGNO CARE

1676

Service Report

Customer Details:

Instrument Details

Lab/Hospital Name: COSMOS CLINICS & DIAGNOSTICS  
Address: NO 503, SPIN ARCADE, ANDRAVILLI MAIN  
BENGALURU - 560091

Model: SWE LAB BASIC

SI.No: 15514

Date and Time

Contact Person Name: DR. NIRUPAMA

Call Received: 07/11/2021

Call Attended: 08/11/2021

Contact No: 9945670868

Call Completed: 08/11/2021

Power Supply Details

Power Supply:  Raw Power  UPS

Power Supply	P-N	P-E	E-N
Raw Power	V	V	V
UPS	V	V	V

Compliant Details:  PM  BD  APL

Spares Replaced/Required

~~PREVENTIVE MAINTENANCE  
CALIBRATION AND QUALITY CONTROL~~

Observation

Everything was good. Pump  
value has been checked.

Action Taken

General maintenance has been done. calibration of AC  
has done. All parameters found to be good. Change  
everything good and sample also changed.

Engineer's Remark

MAINTAIN THE EQUIPMENT NEAT AND CLEAN

Customer's Remark

Engineer's Name: R DEEPAK

Customer's Name: Cosmos Clinics & Diagnostics

Signature: [Signature]

Signature: [Signature]

Date: 08/11/2021

Date: 08/11/2021


Customer's Stamp/Seal:

COSMOS CLINICS & DIAGNOSTICS  
No. 503, SPIN ARCADE, ANDRAVILLI MAIN ROAD,  
SYNDICATE BANK LAYOUT, BENGALURU - 560 091.

# Boule Cal

**CAL****IVD****CE**

Calibrator

Lot	
22109-34	2021-12-22

Open vial stability 5 days <sup>1</sup>**Medonic**

Parameter <sup>2</sup>	RBC 10 <sup>12</sup> /L	MCV fL	Plt 10 <sup>9</sup> /L	MPV fL	WBC 10 <sup>9</sup> /L	Hgb g/dL
CA620/530	4.17	73.7	247	10.1	8.7	11.3
Medonic M-series / M32	4.17	76.5	228	10.1	8.4	11.4
Range ± <sup>3</sup>	0.10	2.0	15	1.5	0.3	0.2

**Swelab**

Parameter <sup>2</sup>	RBC 10 <sup>12</sup> /L	MCV fL	Plt 10 <sup>9</sup> /L	MPV fL	WBC 10 <sup>9</sup> /L	Hgb g/dL
AC9xxeo+	4.17	78.2	227	11.0	7.6	11.3
Swelab Alfa / Alfa Plus	4.17	77.5	234	10.7	8.4	11.4
Range ± <sup>3</sup>	0.10	2.0	15	1.5	0.3	0.2

1  
bg Трайност на отворен флакон  
hr Stabilnost otvorene bočice  
cs Stabilita otevřené ampulky  
da Åben r r stabilitet  
et Stabiilsus avatud viaalis  
fr Stabilit  en flacon ouvert  
de Stabilit t ge ffneter Flaschen  
el Διατήρηση δείγματος μετά την αποσφράγιση  
it Stabilit  della fiala aperta  
lv Atv rt flakonu stabilit ti  
lt Stabilumas atidarius buteliuka  
no Åpen r r/glass stabilitet  
pl Trwa ość po otwarzeniu fiołki  
pt Estabilidade ap s abertura do frasco  
ro Termenul de valabilitate al fiolei desf cute  
ru Стабильность вскрытого флакона  
sr Proizvod stabilan nakon otvaranja pakovanja  
sk Stabilita otvorenej injekcnej liekovky  
sl Stabilitnost odprte stekleni ke  
es Estabilidad de la c psula abierta  
sv H llbarhet f r  ppnad flaska  
tr A ık ŐiŐe stabilitesi

2  
5 дни  
5 dni  
5 dny  
5 dage  
5 p evade arv  
5 jour  
5 tage  
5 ημερα  
5 giorni  
5 dienas  
5 d.  
5 dager  
5 Liczba dni  
5 dias  
5 zile  
5 дней  
5 dana  
5 dni  
5 dias  
5 dagar  
5 g n  
3  
Параметър  
Parameter  
Parametr  
Parameter  
Parameteer  
Param tre  
Parameter  
Παράμετρος  
Parametro  
Parametrs  
Parametras  
Parameter  
Kryterium  
Par metro  
Parametru  
Параметр  
Parameter  
Parameter  
Par metro  
Parameter  
Parametre  
Обхват  
Raspon  
Rozsah  
Omr de  
Vahemik  
Intervalle  
Bereich  
Αναμενόμενο  ρος α  
Intervallo  
Diapazons  
Intervalas  
Omr de  
Zakres  
Intervalo  
Interval  
диапазон  
Opseg  
Rozsah  
Obmo je  
Intervalo  
Intervall  
Aralıđı

<http://www.medonic.se/>[www.swelab.com/](http://www.swelab.com/)

*Diapazon*  
*08/11/2021*

*08/11/21*

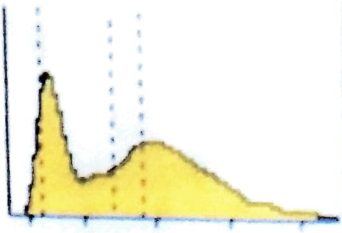
 **Boule**  
Boule Medical AB  
Domnarvsgatan 4  
SE-163 53 Sp nga, Sweden

25123-3

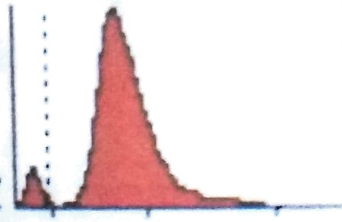
1504055

ID: NORMAL QC PRE-CALIBRATION OT BLOOD

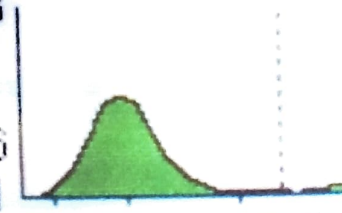
WBC 7.0 ER  
LYM 2.5 ER 36.4 %  
MID 1.0 ER 13.7 %  
GRAN 3.5 ER 49.9 %



HGB 13.0 ER  
MCH 31.1 MCHC 36.2



RBC 4.17 ER  
MCV 85.9 RDW 46.2  
HCT 35.8 RDW% 11.8



PLT 224 ER  
MPV 9.7 PDW 11.6  
LPCR 19.9 PCT 0.21



▲ Prev

SEQ 7716

▼ Next

1/3

Sample

List

Menu

Print

New Sample

*Quipomo*

Swelab

ID: NORMAL

AFTER  
REF-CALIBRATION

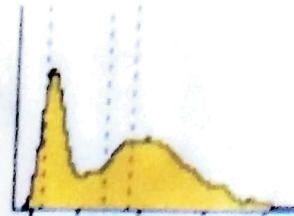
BLOOD

WBC 7.8 ER

LYM 2.8 ER 36.0%

MID 1.1 ER 13.8%

GRAN 3.9 ER 50.2%



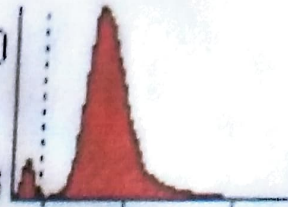
HGB 12.9 ER

MCH 32.3 MCHC 36.0

RBC 3.98 ER

MCV 85.1 RDW<sub>a</sub> 46.8

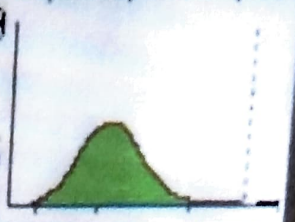
HCT  $\downarrow$  33.9 RDW% 11.9



PLT 258 ER

MPV  $\uparrow$  11.3 PDW 11.5

LPCR 39.0 PCT 0.29



▲ Prev

SEQ 7735

▼ Next

1/3

Sample

List

Menu

Print

New Sample

*Receipt*

Swelab



ID:LOW *POST-CALIBRATION*

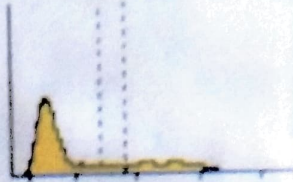
OT  
BACKGROUND

WBC **H** 2.6 **DE**

LYM **H** 1.7 **ER** **H** 64.1 %

MID **H** 0.2 **ER** **H** 6.6 %

GRAN **H** 0.7 **ER** **H** 29.3 %



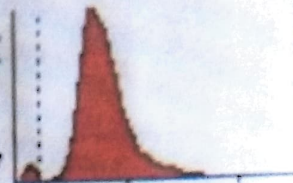
HGB **H** 7.8 **ER**

MCH **H** 30.2 MCHC **H** 38.2

RBC **H** 2.57 **ER**

MCV **H** 79.2 RDW **H** 43.7

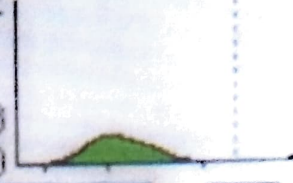
HCT **H** 20.4 RDW% **H** 12.2



PLT **H** 91 **ER**

MPV **H** 11.0 PDW **H** 11.3

LPCR **H** 34.5 PCT **H** 0.10



▲ Prev

SEQ 7737

▼ Next

1/3

Sample

List

Menu

Print

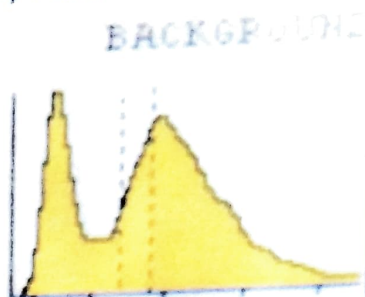
New Sample

*Discrepancy.*

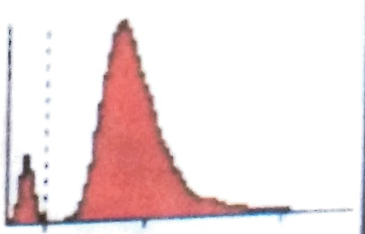
Swelab

ID:HIGH *Post-CALIBRATION*

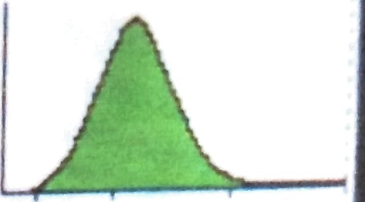
WBC **H** 19.5 DE  
LYM **H** 8.3 ER **H** 32.4 %  
MID **H** 3.0 ER **H** 15.2 %  
GRAN **H** 10.2 ER **H** 52.4 %



HGB **H** 17.0 ER  
MCH **H** 34.0 MCHC **H** 36.9



RBC **H** 5.00 ER  
MCV **H** 92.1 RDW **H** 53.5  
HCT **H** 46.1 RDW% **H** 12.2



PLT **H** 505 ER  
MPV **H** 11.7 PDW **H** 11.3  
LPC **H** 42.2 PCT **H** 0.59



▲ Prev

SEQ 7736

▼ Next

1/3

Sample

List

Menu

Print

New Sample

*Swelab*

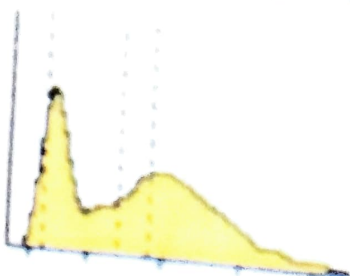
Swelab

ID: NORMAL QC PRE-CALIBRATION

WBC

7.0 ER

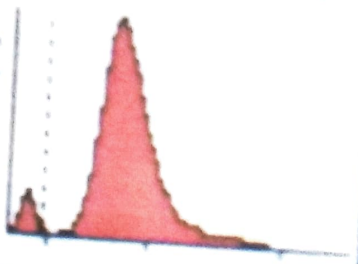
LYM	25	ER	36	4%
MID	10	ER	13	7%
GRAN	35	ER	49	9%



HGB

13.0 ER

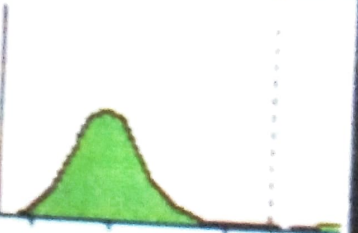
MCH	31	1	MCHC	36	2
-----	----	---	------	----	---



RBC

4.17 ER

MCV	85	9	RDW	46	2
HCT	35	8	RDW%	11	8



PLT

224 ER

MPV	9	7	PDW	11	6
LPCR	19	9	PCT	0	21



▲ Prev

SEQ 7716

▼ Next

1/3

Sample

List

Menu

Print

New Sample

*Quipomo*

Swelab

ANNUAL MAINTENANCE CONTRACT

This Maintenance agreement is between M/s. Diagnostics Lifesciences Pvt. Ltd., 127B, Bricklin Road, Ground Floor, Purasaiwalkam, Chennai - 600007 (Hereinafter called "The Company" which terms includes its successors and assigns of the one part) and M/s. Cosmos Clinics and Diagnostics, No.503, SMV Arcade, Andrahalli Main Road, Syndicate Bank Layout, Bangalore-560091 (Hereinafter called "The customer" which terms include its/his/hers, successors and assigns of the one part)

Name and Model of Equipment	Inst.Sr.No	Start of AMC	Expiry of AMC	Amount
Swelab Alfa (3 Part Cell Counter)	15514	06.11.2021	05.11.2022	18000.00
			GST @ 18%	3240.00
			Total	21240.00

(Rupees. Twenty One Thousand Two Hundred and Forty only )

1. The company agrees in consideration of Rs 21240.00 for equipment as mentioned in the schedule which payable 100 % advance to carryout the maintenance of the customer's equipment as mentioned in the above and keep them in good operating condition for a period of this contract as mentioned in the schedule.
2. The equipment mentioned in the schedule is/are in operating condition on the date of execution of this agreement.
3. The company agrees to make four preventive maintenance services besides any breakdown call render maintenance service during its working days and normal working hours. The contract covers only repairs to equipment mentioned in the schedule and does not cover any allied or ancillaries or connected equipment.
4. The PM kit should be purchased by customer to do the PM.
5. If any spare or any consumable are required for making the equipment in working condition, the same will be charged extra. The company will try its best to provide spare parts from its stock. However if the spare parts is not available in stocks, the customer have to procure it from the principle company.
6. The company undertakes to do its best to carry out its obligation under the term of this agreement as early as possible, but will not be responsible for any loss arising directly or indirectly from any delay in doing so.

**DIAGNOCARE LIFE SCIENCES PRIVATE LIMITED**

Old # 127B, Bricklin Road, Ground Floor, Purasaiwalkam, Chennai - 600 007

Ph : 044 - 4262 0091. Cell : 97503 22013. E-mail : order@dcls.in

GSTIN : 33AAICD1113E1ZE

*Signature*



## DIAGNO CARE

7. The company shall be given full and free access to equipment to carry out the desired repairs. If the repairs cannot be carried at customer's location, the company will authorized to take the equipment to its service centre.
8. The customer hereby undertakes to keep the machine clean, ensuring its correct operating and reporting any problem relating to the machine and preventing misuse of the equipment.
9. This agreement does not cover any work necessitated by neglect, misuse of accidents which is not under the control of company. Should it become necessary to carry out such work, charges for the same will be extra.
10. The effect of this agreement will stand nullified in case the equipment is misused, dismantled, altered, or serviced by anybody other than company's service engineers.
11. The agreement will be renewed after one year with mutual consent if notice to the contrary is not given 30 days before the expiry of the period in course. The company may terminate this agreement by giving one month prior notice in writing in which event the company will refund to the customer pro-rata charges paid in excess of the period covered.
12. Any dispute arising out of this agreement shall be under the jurisdiction Chennai courts.

*R. Deepak*  
*08/11/2021*  
**Company' Signature**  
**With seal & Date**

*Deepame. L.*  
*08/11/2021*  
**Customer's Signature**  
**With seal & Date**

**COSMOS CLINICS & DIAGNOSTICS**  
(A Unit of Phoenix Diagnostics)  
No. 503, SMV Arcade, Andrahalli Main Road  
Syndicate Bank Layout, Bengaluru - 560 08

**DIAGNOCARE LIFE SCIENCES PRIVATE LIMITED**

Old # 127B, Bricklin Road, Ground Floor, Purasaiwalkam, Chennai - 600 00  
Ph : 044 - 4262 0001, Call : 07500 0000

## CALIBRATION CERTIFICATE

<b>Customer Name &amp; Address:</b>  M/s, Cosmos Clinics and Diagnostics, No:- 1190, Ground floor,44th Cross Rd 1st Stage , Kumarswamy Layout, Bengaluru, Karnataka,560078	Instrument	: Swelab Alfa Plus
	Date of Calibration (Due)	: 07/11/2022
	Sl.No	: 104665
	Engineer Name	: P.Saravanan
	Date of Calibration	: 08/11/2021
	Designation	: Zonal Head

Swelab- $\alpha$  has been calibrated as per the procedures of principle BOULE MEDICL AB,Sweden.

### Power Supply Check:

DC Power Supply	Tolerance	Actual values	Remarks
+ 24 V	+/- 0.5 V	23.9 V	OK
+ 20 V	+/- 0.5 V	20.1 V	OK
+ 5.1 V	+/- 0.2 V	5.1 V	OK
+ 5.0 V	+/- 0.2 V	4.8 V	OK
- 5.0 V	+/- 0.2 V	-5.2 V	OK
+ 3.35 V	+/- 0.2 V	3.39 V	OK
HGB Voltage in Software	3200 - 3800mv	3569	OK

### Performance Check:

Module name	Check	Remarks
Level Detector Check	Checked	Ok
Noise Test	Checked	Ok
Valve / Pump Check	Checked	Ok
Touchscreen Check	Checked	Ok
Blood Detector Check	Checked	Ok
Shearvalve Initialisation	Checked	Ok
Background Check	Checked	Ok

### Linearity:

Measured Swelab according to Boule I-1040 section 8 based on standard EP6-A

Parameter	Maximum Non-Linearity	Within the following Range
WBC	3.00%	0-80.0X10 <sup>9</sup> /l
RBC	2.00%	0-70.00X10 <sup>12</sup> /l
PLT	0.20%	0-1800X10 <sup>9</sup> /l
HGB	3.00%	0-25.0g/dl

### **DIAGNOCARE LIFE SCIENCES PRIVATE LIMITED**

**Measuring Ranges:**

Parameter	Measuring Range
WBC	0-99.9X10 <sup>9</sup> /l
RBC	0-14X10 <sup>12</sup> /l
MCV	15-250fl
PLT	0-1999X10 <sup>9</sup> /l
HGB	0-99.9g/dl

**Correlation:**

Correlation was performed using a Bayer/Advia 120 as reference. Resulting in following correlation coefficients(R): WBC > 0.97, RBC > 0.98, MCV > 0.98, PLT >0.95, and HGB > 0.98. Note that the range for each parameter was limited by the types of samples available for the study.

**Reproducibility:**

Measured as an average of 10 measurements each on 3 different vein K2-EDTA collected normal samples on three instruments. Values shown been corrected 0 to 95% Confidence limits.

Parameter X-Mean(CGS units)	Values	CV (%)
WBC	8.2	< 3.5
RBC	4.29	< 1.8
MCV	94.5	< 1.5
PLT	305	< 5.2
HGB	12.9	< 1.5



**P.Saravanan**

Zonal Head (Sales & Service),

R.K Agency,

Chennai.

Mobile No: 9750322013

**DIAGNOCARE LIFE SCIENCES PRIVATE LIMITED**

Old # 127B, Bricklin Road, Ground Floor, Purasaiwalkam, Chennai 600007.

Cell :9750322013, 7530005300. E-mail :dclifescience@gmail.com GSTIN:33AAICD1113E1ZE



Patient Name : **MR. RAMACHANDRA**  
Referred by : SELF  
Sample Date : 12/10/21, 02:02 PM

Age : 56 years (Male)  
Reg. ID : 37298  
Report Date : 12/10/21, 02:35 PM  
Sample ID :



Test Description	Value(s)	Unit	Reference Range
<b>Complete Blood Count [CBC]</b>			
Haemoglobin	<b>18.4</b>	g/dl	13.5 - 17.5
Haematocrit	<b>59.0</b>	%	37 - 53
Red Blood Cell Count	<b>6.01</b>	$\times 10^6/\mu\text{L}$	4.50 - 5.90
MCV	98.1	fL	80 - 100
MCH	30.6	pg	26 - 34
MCHC	<b>31.2</b>	%	32 - 36
RDW	12.4	%	11.5 - 13.1
WBC	10400	$/\mu\text{L}$	4500 - 11000
Neutrophil	61.3	%	40-75
Eosinophils	1.1	%	0 - 7
Basophils	0.1	%	0 - 1
Lymphocytes	34.2	%	24 - 44
Monocytes	3.3	%	3 - 6
Platelet Count	191000	$/\mu\text{L}$	150000 - 450000
MPV	9.0	fL	6.5 - 10.0

**Comments**

A complete blood count (CBC) is a blood test used to evaluate your overall health and detect a wide range of disorders, including anemia, infection and leukemia. A complete blood count test measures several components and features of your blood, including: red blood cells, white blood cells and platelets. Abnormal increases or decreases in cell counts as revealed in a complete blood count may indicate that you have an underlying medical condition that calls for further evaluation.

**\*\*END OF REPORT\*\***

Result is to be correlated clinically

Dr. Nirupama.S  
Chief Pathologist,  
MBBS, DCP, DNB (Patho), PGDFM(CMC Vellore)





**HAEMATOLOGY**

Test Parameter

Result(s)

Biological Reference Interval

**COMPLETE BLOOD COUNT**

HAEMOGLOBIN(SLS)

17.9 g/dl

Adults  
 Female: 12-15g/dl  
 Male: 13-17g/dl

Children  
 Birth : 14 – 22g/dl  
 Newborn : 11.5 – 16.5g/dl  
 1mon to 6yrs : 11.1 – 14.1g/dl  
 6-12yrs : 11.5 – 15.5g/dl

**TOTAL & DIFFERENTIAL COUNT**

WBC COUNT

(Electrical Impedence Variation)

10680 Cells / cumm

Adults : 4000-11000 cells/cumm  
 Birth: 10000-26000 cells/cumm  
 Newborn: 5000-19000  
 cells/cumm  
 1mon to 6mon: 5000-18000  
 cells/cumm  
 6mon-6yrs: 5000-16000  
 cells/cumm  
 6yrs -12yrs: 5000-13000  
 cells/cumm

**DIFFERENTIAL COUNT**

NEUTROPHILS

60 %

Birth : 30-60%  
 Children <4yrs : 25-45%  
 Children 4yrs-10 :30-60%  
 Adults: 40-75%

LYMPHOCYTES

30 %

Newborn : 25 – 35%  
 Children <4yrs : 35-65%  
 Children 4yrs-10 :30-50%  
 Adults: 20-40%

EOSINOPHILS

2 %

1-6%

MONOCYTES

8 %

2 - 10%

**COMPLETE BLOOD COUNT**

RED BLOOD CORPUSLES(RBC)

(Electrical Impedence Variation)

6.04 million/cumm

Adults-  
 Females: 3.8-4.8 million/cumm  
 Males: 4.5-5.5 million/cumm  
 Birth: 5.0-7.0 million/cumm  
 Newborn: 3.0-5.4 million/  
 1mon to 12yrs: 4.0-5.2  
 million/cumm



# KANVA

## DIAGNOSTIC SERVICES PVT. LTD.

Centre for Hi-tech Diagnostic Services and Multi-Speciality  
 Polyclinic Integrated with Physiotherapy & Research  
 #744, 11th Block, 2nd Stage, Nagarbhavi, Bangalore - 560072  
 PH: 080 23012222 (50 Lines), 9353026989  
 E-Mail : dr.venkatappa@kanvadiagnostic.com  
 WebSite : www.kanvadiagnostic.com

Reg. No. N332286 Date 11/10/2021 17:21  
 Name Mr. RAMACHANDRA  
 Age 56 Year(s) Sex Male  
 Corporate NON CORPORATE  
 Ref. By. C/O Cosmos Diagnostic



### HAEMATOLOGY

#### Test Parameter

PCV (HAEMATOCRIT)

(Electrical Impedance Variation calculated)

#### Result(s)

53.5 %

#### Biological Reference Interval

Adults-  
 Females: 36-46%  
 Males: 40-50%  
 Birth: 45-75%  
 1month:33-53%  
 1year: 30-38%  
 2-6yrs: 34-40%  
 6-12yrs: 35-45%  
 Adults-  
 Females & Males: 83-101 fL  
 Birth: 100 – 120 fL  
 1month: 92 – 116 fL  
 1year: 72 – 84 fL  
 2-6yrs: 75-87 fL  
 6-12yrs: 77-95 fL  
 Adults & Children: 27-32 pg  
 Adults & Children : 31.5 – 34.5 g/dL  
 11.6 - 14.6%

MCV

(Electrical Impedance Variation calculated)

88.6 fl

MCH

(Electrical Impedance Variation calculated)

29.6 pg

MCHC

(Electrical Impedance Variation calculated)

33.5 g/dL

RDW

13.9 %

PLATELET COUNT

(Electrical Impedance Variation)

2.30 Lakhs/cumm

1.5-4.5 Lakhs/cumm

**NOTE :** *Outside sample.*

----- End Of HAEMATOLOGY Report -----

Verified By :

SHEEBA

Dr Sahana V V

MD Pathology

Consultant Pathologist

KMCNo94539

Reported On : 11/10/2021 18:26

Sample

EDTA

Received At

11/10/2021 17:26

### DISCLAIMER

The result obtained relate only to the sample given/received & tested. A single test result is not always indicative of a disease, it has to be correlated with clinical data for interpretation.

Sample processed on the same day as collection/received date unless specified otherwise.