

**INSTALLATION, OPERATIONAL & PERFORMANCE
QUALIFICATION DOCUMENTS**

DIAGNOCARE LIFE SCIENCES PRIVATE LIMITED

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

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

Installation / Validation Report

Swelab Cell Counter IQ / OQ / PQ Documents

Customer Address: **Cosmos Clinics and Diagnostics**

Contact person: **Dr.Nirupama.S**

Telephone No: **9945670868**

Type of instrument: **Swelab Alfa Plus**

Serial no: **15514**

Installation date: **08/11/2021**

Installation Qualification:

Transport damage

Package damaged: Yes No

Parts damaged Yes No

If yes, please specify:

* Please return parts damaged, including a malfunction report.

Initial check

Parts missing?

Part number

Part description

(Check against packing list)

Yes → Please specify parts

No

Line Voltage / Main Supply: 230+/- 20 V: **229 V**

Earthing Voltage (<5V): **1 V**

Room Air conditioned: Yes

Stabiliser / UPS: **Installed**

Brand:

Rating:

The system Described meets all the criteria outlined in this installation qualification Documents.

All items have been checked & Installation has been completed.

The System is ready for Performing Operational Qualification.

For M/s Diagnocare Life Sciences Pvt. Ltd., Chennai

P.Saravanan

Zonal Head (Sales & Service)

DIAGNOCARE LIFE SCIENCES PRIVATE LIMITED

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Installation / Validation Report

Swelab Cell Counter IQ / OQ / PQ Documents

Customer Address: **Cosmos Clinics and Diagnostics**

Contact person: **Dr.Nirupama.S**

Telephone no: **9945670868**

Type of instrument: **Swelab Alfa**

Serial no: **15514**

Installation date: **08/11/2021**

Operational Qualification:

- Remove all the Transpiration accessories / Clips / Packing.
- Connect all the reagent tubing & place the Diluent and Lyser probes in respective reagents.
- Switch ON the system and check the Display
- Check the initialising process.
- Set System Parameters
- Run Fill system.
- Run a Prime Cycle and Background analysis.
- Check Tubing, Valves and motor in the service Menu.
- Check noise interference for RBC and WBC chambers (ideally should be 0)
- Check Photometer and Lamp Voltage (Should be 60V)
- Check RBC and WBC metering unit timings (Time should be less than 17 Seconds)

Tests/Comments (if any):

The instrument is performing in the prescribed standards; validation of the same has been performed.

This is to certify that the instrument can be used for operational analysis.

The system Described meets all the criteria outlined in this installation qualification Documents.

All items have been checked & Installation has been completed.

The System is ready for Performing Performance Qualification.

For M/s **Diagnocare Life Sciences Pvt. Ltd., Chennai**

P.Saravanan
Zonal Head (Sales & Service)

Installation / Validation Report

Swelab Cell Counters IQ / OQ / PQ Documents

Customer Address: **Cosmos Clinics and Diagnostics**

Contact person: **Dr.Nirupama.S**

Telephone no: **9945670868**

Type of instrument: **Swelab Alfa Plus**

Serial no: **15514**

Installation date: **08/11/2021**

Performance Qualification:

Lot No of **DIAGON Control : IU0901**

Parameter	Target Value	Tolerance	Measured Value	Status
Low Control				
RBC	2.68	2.48 – 2.88	2.57	OK
WBC	2.41	1.91 – 2.91	2.6	OK
MCV	83.3	77.3 – 89.3	79.2	OK
HGB	7.2	6.6 – 7.8	7.8	OK
PLT	76	51 – 101	91	OK
Normal Control				
RBC	4.42	4.12 – 4.72	3.98	OK
WBC	7.12	5.12 – 8.12	7.8	OK
MCV	89.8	83.8 – 95.8	85.1	OK
HGB	12.6	11.9 – 13.3	12.9	OK
PLT	231	186 – 276	258	OK
High Control				
RBC	5.51	5.11 – 5.91	5.00	OK
WBC	16.92	14.42 – 19.42	19.5	OK
MCV	95.5	89.5 – 11.5	92.1	OK
HGB	16.5	15.7 – 17.3	17.0	OK
PLT	451	386 - 516	505	OK

REMARKS:

The system meets all criteria outlined in this Performance Qualification Documents.
All the required parameters have been checked and instrument is ready for regular use.

For M/s Diagnostics Life Sciences Pvt. Ltd., Chennai

P.Saravanan
Zonal Head (Sales & Service)

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Swelab Alfa instrument

Clinical and performance test procedures

2021-01-28ThO

Purpose

The purpose of this document is to verify that the Swelab Alfa instrument from Boule Medical AB fulfils the quality demands as specified for the instrument in the Boule Medical quality documentation.

For basic calculations and instrument verification procedures, see Doc I-1040 as well as the referenced international standards.

This document refers to clinical and performance characteristics. For electrical testing refer to the certificates on the low voltage directive and the directive on EMC emission and immunity.

The Swelab Alfa instrument have been run on the reagents given below after calibration and control with the material indicated below.

Reagents/Controls:

Diluent:	Swelab Alfa Diluent
Lyse:	Swelab Alfa Lyse
Calibrator:	Boule Cal
Control:	Boule Con-Diff Normal
	Boule Con-Diff Low
	Boule Con-Diff High

Definitions

Clinical test procedure

A procedure using clinical samples (human blood) to test the performance of the reagents in a haematology analyzer in comparison to a haematology analyzer reference system.

Performance test procedure

A procedure using clinical samples (human blood), or solutions mimicking specific properties of blood samples, to test the performance of the reagents in a haematology analyzer or to test properties of the reagents of importance for function of the analysis.

Parameter

The recorded analytical result recorded for one type of blood cell after the completion of an analysis of a blood sample. For both test procedures the parameters are limited to the actually measured parameters (primary parameters) of RBC, MCV, HGB, PLT, WBC, lymphocytes and granulocytes. MPV and mid-cells are also directly recorded but are not investigated since MPV follows MCV and mid-cells is a small fraction of the WBC with known relatively poor correlation to e.g. monocytes.

Precision

The precision is defined as the coefficient of variation (CV %) on the repeated analysis of a blood sample within the normal range of analytical parameters.

Carry-over

The contamination from one sample to the following sample and expressed as % influence.

Correlation

Correlation between a measured parameter from the test system (instrument/reagent) and a reference system (standard) expressed by the correlation coefficient.

Linearity

Linearity is defined as the ability of an instrument to measure and present data, from samples with known and varied concentrations, so that the pair of data from test and reference measurements form a straight line when presented in a graph

Turbidity

Turbidity is defined as the influence of particles in the sample cuvette on a measured parameter with a photometric method (HGB).

Calibrator

Material with properties similar to a blood sample and with assigned parameter values that are traceable to reference methodology according to international quality standards. The calibrator is used to calibrate the instrument system.

Control

Material with properties similar to a blood sample and assigned parameter values linked to the calibrator. The control is used to monitor instrument performance and to demonstrate the continued integrity of the calibration status.

Tests

Test procedures for the instrument system are performed on a essential parameters to ensure that critical qualities of the instrument system are within the instrument specifications.

The Swelab Alfa system was calibrated and controlled according to the instrument manual as given in the following sections.

These studies are generally conducted in collaboration with external partners for the main clinical evaluation (clinical tests) and as in-house studies for the performance evaluations.

Linearity

The linearity is tested by the measurement of solutions (samples) with known but varied parameter concentrations covering as much as possible of the measurable range for the parameter in the Swelab Alfa instrument. The samples are prepared according to the following procedure. The method used is based on fit of a polynomial to a number of data points, the method used is described in EP6-A.¹

The results are a part of the Technical File (Doc # 02242) for the Swelab Alfa system.

- a) The sample with the highest concentration is tested using the Swelab Alfa instrument so as to be close to the upper measurable limit. The concentration does not have to be known on beforehand. The blood may have to be slightly manipulated e.g. for high RBC/HGB the sample can be enriched by centrifugation and for high PLT a thrombocyte concentrate may be used.
- b) A dilution series of at least 7 concentrations is prepared, including the highest concentration. The concentrations do not have to be at equidistance and the lowest concentration may be at zero (diluent).
- c) The test is performed in duplicates for each concentration
- d) The results are plotted using the actual measurement for each parameter against the calculated (or relative) concentration for each data pair.

Linearity RBC

Test Doc# 02242

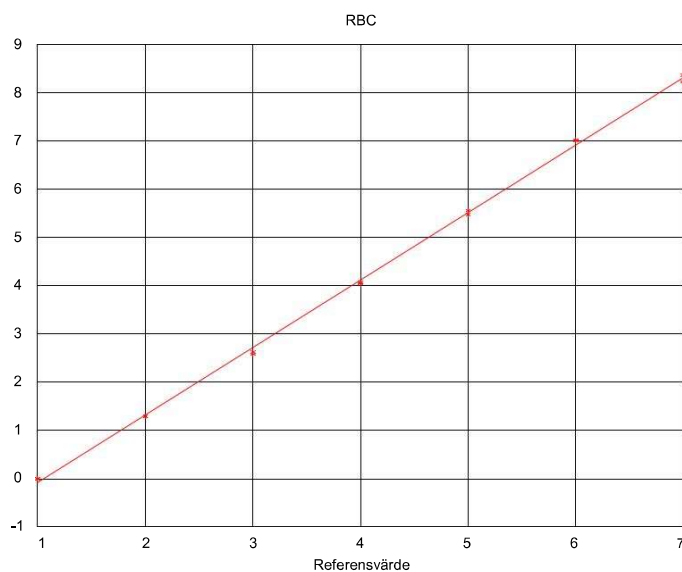


Figure 1. The linearity for RBC between reference (calculated value) and test (actual value).

¹ EP6-A Evaluation of the Linearity of Quantitative Measurement Procedures: A Statistical Approach; Approved Guideline, volume 23 of EP6-A, 2003. ISBN 1-56238-498-8.

Linearity HGB

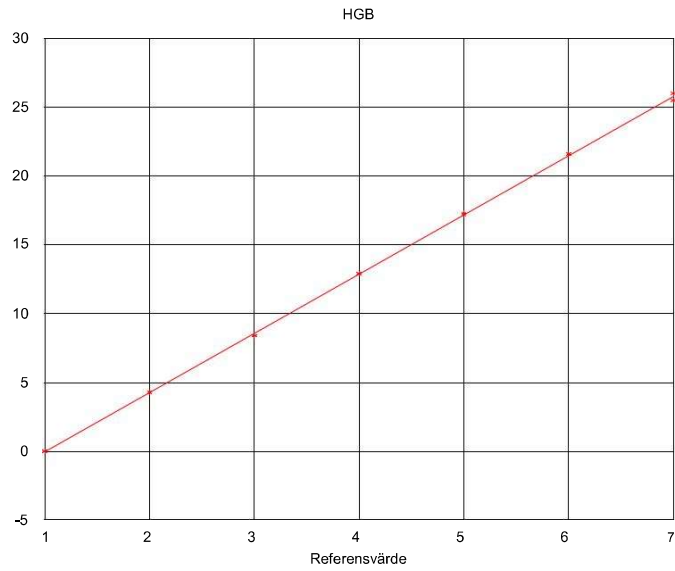


Figure 2. The linearity for HGB between reference (calculated value) and test (actual value).

Linearity PLT

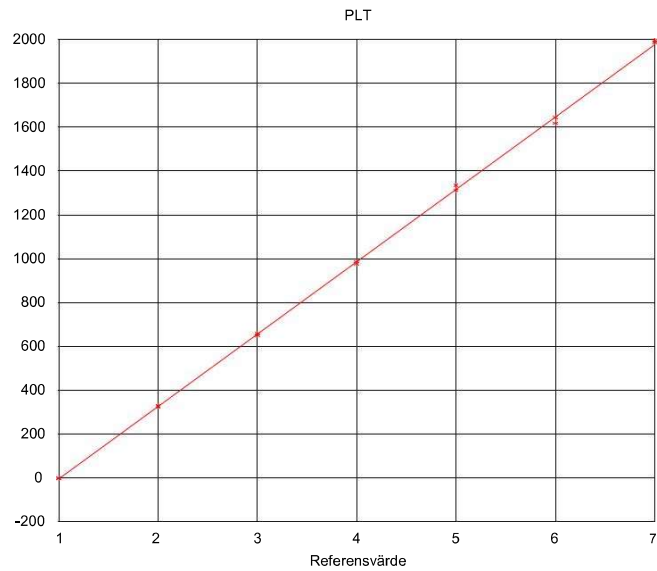


Figure 3. The linearity for PLT between reference (calculated value) and test (actual value)

Linearity WBC

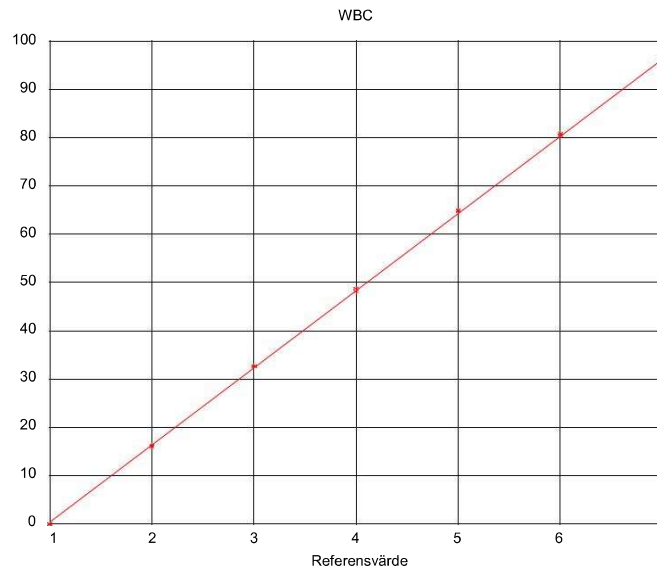


Figure 4. The linearity for WBC between reference (calculated value) and test (actual value).

Results linearity

Parameter	Range	Limit
RBC	0,00 – 7,00 x 10 ¹² /L	Within ± 2%
HGB	0,0 – 25,0 g/dL	Within ± 3%
PLT	0 – 1800 x 10 ⁹ /L	--
WBC	0,0 – 80,0 x 10 ⁹ /L	Within ± 3%

Table 1 Specification according to Doc # 00003

All parameters were found to be linear according to the above specification²

²Doc No 0003 rev 05 BM800 System Requirement Specification

Precision

The precision with the Swelab Alfa system, expressed as the $CV\%_{tot}$, is checked by repeat analysis of three different normal human blood sample against the instrument specification (n=10) according to the following procedure. The results are a part of the Technical File (Doc # 02242) for the Swelab Alfa system.

- 1) Repeat the testing of each human blood 10 times
- 2) Calculate the mean (X) and the standard deviation (SD) of each series
- 3) Calculate the precision of each run by the coefficient of variation (CV %) as $(X/SD \times 100)$.
- 4) Calculate a common CV% for all three series, $CV\%_{tot}$, :

$$CV\%_{tot} = \sqrt{\frac{CV\%_1^2 + CV\%_2^2 + CV\%_3^2}{3}}$$

- 5) Display the results ($CV\%_{tot}$) for RBC, MCV, PLT, HGB and WBC in comparison to the values specified for the Medonic M-series instrument.

Precision for Swelab Alfa

The below data is a part of the Swelab Alfa Technical File, the following material has been used in the evaluation.

Hematology Analyzer Swelab Alfa, part no 1400016
Diluting reagent Swelab Alfa Diluent, 20 L, part no 1504124
Lytic reagent Swelab Alfa Lyse 5 L, part no 1504125

Clinical samples

The evaluation is made from venous samples (EDTA tubes) from healthy test persons, i.e. having test results within normal range for the respective parameters. Samples in micro capillary (20 μ L) have been drawn from the EDTA sample tubes.

The evaluation is performed according to internal test method (I-1040) that, among other things, is based on parts of guidance from the Clinical and Laboratory Standards Institute (CLSI former NCCLS).

Results precision

The tabel below shows results using open-tube (OT) sample inlet respective micro capillary (via micro capillary inlet , MCI), $CV\%_{tot}$ calculated as shown above, using a 95% confidence interval.

Parameter	Precision OT		Precision MCI	
	(CV %)	Limit %	(CV %)	Limit %
RBC	1,6	≤ 1,8	2,1	≤ 2,7
MCV	1,3	≤ 1,5	0,7	≤ 1,5
PLT	4,1	≤ 5,2*	4,8	≤ 5,2*
HGB	1,2	≤ 1,5	1,7	≤ 2,4
WBC	2,7	≤ 3,5	2,6	≤ 3,6

Table 2. Doc # 02242 Precision (CV%) for Swelab Alfa system, humanblod *
updated to agree with current instrument specification Doc # 0003 ed 12

The precision with the Swelab Alfa reagents was within the given limits for all the parameters.

HGB absorbance spectrum

The Swelab Alfa reagents are based on a cyanide free formulation to avoid potentially hazards with cyanide containing waste etc. The HGB determination is based on the relatively broad absorbance peak, around 535 nm, of HGB in complex with components from the lytic reagent. The emission spectrum of the LED is dependent on both the feed current and the temperature. The maximum emission is expected to occur around 540 nm for the conditions employed in the Boule instruments (e.g. $I_F = 2$ mA). Thus, there is a very good match with an absorbance maximum of 535 nm of the HGB. The results are a part of the Technical File (Doc # 02656) for the Swelab Alfa system.

Testing is done by measuring the absorbance spectrum in a reference spectrophotometer (glass cuvettes, 10 mm lightpath, 2 nm bandwidth) according to the following procedure.

- Prepare both the test and reference cuvette with a 1:1 mixture of diluent and lyse
- Add normal human blood to a dilution of 1:400 to the reference cuvette and mix
- Initiate the recoding of the absorbance spectrum within 10 seconds from mixing
- Display the spectrum between 500 and 600 nm

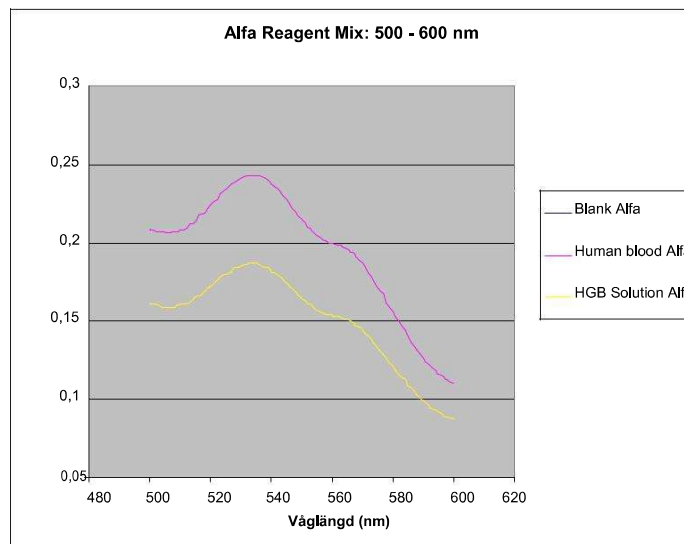


Figure 5. Absorbance spectrum HGB for the Swelab Alfa reagents using human blood (147 g/L) or purified HGB (only displayed for comparative purposes)

The absorbance peak corresponds very well with the filter/lamp combination.

Turbidity

The effect of turbidity within the HGB photometer is checked with latex particles with a volume within the range 100-400 fL (target 180 fL) so as to represent the WBC populations (e.g. granulocytes, lymphocytes) after lysing. Test should be done up to a particle concentration $> 60 \times 10^9$ cells/L. The results are a part of the Technical File (Doc # 01720) for the Swelab Alfa system.

Testing is done in the Swelab Alfa instrument by the following procedure (see also I-1040).

- a) Prepare a base solution of latex particles in diluent at a calculated concentration $> 60 \times 10^9$ cells/L.
- b) Make an analysis of the solution in the pre-dilute inlet so as to ensure that the WBC (particle) concentration is sufficient
- c) Make a serial dilution of the base so as to represent 75, 50 and 25 % of the original content. The content of each solution should be enough for three assays
- d) Run the solutions as samples through the pre-dilute inlet and record WBC and HGB values.
- e) Repeat the procedure three times and calculate the mean (mean values given in the table below).

WBC value	74.7	55.6	37.4	18.7
HGB recorded	0.3	0.2	0.1	0.0

Table 3 Results from turbidity test

The instrument specifications state that the interference from particles (WBC) shall be < 0.5 g/dl at a level up to 60×10^9 cells/L. The results were within specifications.

Carry-over

The carry over is checked by determination of the difference by a low sample and the same low sample run immediately after a high sample for RBC and WBC. For reagents the following procedure is done

Test method is described in I-1040, the definition of carry over according to the below formula is identical to the one published in an article in ICS94, Appendix 4³.

- a) Run the high sample three times
- b) Run the low sample three times
- c) Calculate the difference between the first low sample and the last low sample (l_1-l_3)
- d) Calculate the difference between the last high sample and the last low sample (h_3-l_3)
- e) Calculate the % carry-over as:

$$carry - over\% = \frac{l - l}{h - l} * 100\% \leq CO_{max} \%$$

- f) Repeat 3 times, highest value reported as carry-over.

Carry-over för Swelab Alfa

The below data is a part of the Swelab Alfa Technical File, the following material has been used in the evaluation.

Hematology Analyzer Swelab Alfa, part no 1400016
Diluting reagent Swelab Alfa Diluent, 20 L, part no 1504124
Lytic reagent Swelab Alfa Lyse 5 L, part no 1504125

Samples

The test was performed using Boule Con-Diff High and Boule Con-Diff Low.

The evaluation is performed according to internal test method (I-1040) that, among other things, is based on parts of guidance from International Council for Standardization in Haematology (ICSH).

³ ICSH. Guidelines for the evaluation of blood cell analyzer... *Clinical and laboratory haematology*, (16):157-174, 1994.

Result carry-over

The table below shows results from open tube inlet (OT), micro capillary (via micro capillary inlet, MCI) and pre-diluted sample (PD).

Carry-over	Inlet	RBC	PLT	HGB	WBC	Results
<i>Limit CO%</i>	<i>OT</i>	<i>1</i>	<i>2</i>	<i>1</i>	<i>1</i>	
Alfa 10103	OT	0.5	1.2	0.3	0.3	OK
<i>Limit CO%</i>	<i>MCI</i>	<i>2</i>	<i>3.5</i>	<i>2</i>	<i>2</i>	
Alfa 10103	MCI	1.0	1.0	0.7	0.3	
<i>Limit CO%</i>	<i>PD</i>	<i>2</i>	<i>3.5</i>	<i>2</i>	<i>2</i>	
Alfa 10040	PD	1.5	3.0	1.3	1.4	OK

Table 4. Specification according to Doc # 00003.

Results from Doc # 02242 Carry over (%) for Swelab Alfa

The carry over was confirmed to be within the instrument specifications.

Calibrators and Control

General

The purpose of this section is to define a secure and practical method to calibrate and control the Swelab Alfa instrument during normal operation.

Introduction

Within hematology a general problem is found in standardizing the calibration method(s). Because of obvious reasons, a standard as known within the clinical-chemistry field is not possible as the number of cells cannot be standardized. Blood controls are therefore called “controls” and not “standards”.

A general control of the used analyzer should therefore be preformed in comparison with the well known and established microscope method. However, in such a case, the comparison will be completely dependent on the skill of the microscope operator. This is, however, the only reliable method in checking automatic hematology analyzers.

To simplify the calibration procedure at the end-user, certain hematology parameters can be determined with reasonable accuracy by using commercial calibrators with assigned values traceable to reference methods. Traceability matrix for Boule Cal is described in Doc no 2246⁴.

Limitations

WBC differentials

Cell differentials cannot be standardized as white blood cell cannot act as real white blood cells in a control blood. As the cells within a commercial control are fixed, there is no check whether the reagents used are reliable or not.

RDW

The Red Cell Distribution Width (RDW) is one of the most sensitive parameters with hematology. Prolonged waiting time as well as high temperatures of the specimen will heavily effect this parameter. As the RDW is a not common defined parameter (differences between different brands/analyzers), this parameter is not “standardized” within this document. However, most of the commercial available analyzers today, as well as Swelab Alfa, are based upon a CV analysis of a portion of the RBC size distribution and the RDW is therefore expressed in %.

Calibration procedure

The following describes in short the calibration process, detailed description is found in the User’s Manual, section 7⁵

- Always use calibrator having values assigned to the instrument you are using, e.g. Boule Cal
- Handle and prepare the calibrator in accordance to calibrator package insert.

⁴ Doc No 2246 Certificate of Compliance

⁵ Swelab Alfa User’s Manual part no 1504170 November 2006

- In the Swelab Alfa instrument the following parameters can be calibrated: RBC, MCV, PLT, MPV, HGB and WBC. It is not recommended that the end-user change the preset calibration factors for RDW%, RDWa, and PDW.
- Use the installed barcode reader to scan the Calibrator ID from the calibrator label
- To perform calibration, it is recommended that five calibration analysis be performed in consecutive order
- Calibration analysis must be the last analysis performed on instrument for parameter value to be shown in calibration menus
- Scroll through parameter screen and verify that the CVs for the following parameters are within limits: RBC, MCV, PLT, HGB, WBC. If CV values are not within range operator will be unable to perform calibration
- Calibration can be performed in three ways:
 1. automatic calculation of factors by using the [USE CAL] button
 2. enter target value from calibrator
 3. manually calculate and enter calibration factors
- It is recommended to run controls after calibration to verify that all parameters have been calibrated correctly

Control samples

It is advisable that the performance of the Swelab Alfa system is checked daily with certified blood controls authorized by Boule, e.g. Boule Con-Diff or Boule Con. Comparing the analyzer results to the known values on the Boule control assay sheet is a good assurance that the system is functioning properly.

- Handle and prepare controls in accordance to control package insert.
- Never use an open vial longer than recommended by the manufacturer or subject any vial to excessive heat or agitation.
- Wipe the aspiration needle with a clean, dry tissue before each control run. Not following this discipline might lead to decreasing parameter values

Clinical tests

The performance of the test system (Swelab Alfa system) is compared against a reference method. The Swelab Alfa system, including the Alfa reagents, was calibrated and controlled according to the instrument manual.

The study is generally conducted by an external partner, but could also be done as an in-house study.

Clinical Study # 1, Swelab Alfa vs ADVIA

Introduction

The first study was done to ensure that the linearity and correlation agreed with the results from an independent haematology system. The results are a part of the Technical File (Doc # 01919) for the Swelab Alfa system.

The evaluation was performed as given below.

Clinical samples

The evaluation has been done in collaboration with The Karolinska University Hospital, Dept. Clinical Chemistry with reference values from a Bayer Advia 120 system, and according to the standard SS-EN 13612 for compliance with the demands in the European IVD-directive (98/79/EC).

The correlation studies are based on in total 247 samples taken randomly from the normal routine. Reference values have been available to varying extent depending on the studied parameter (number of complete data pairs (n) are given in the figures). The analysis has been performed in the open tube (OT) mode for the test system and the assay has been completed within 4 hours from the analysis in the reference system.

Result of the correlation studies

Erythrocytes, concentration (red blood cells, RBC)

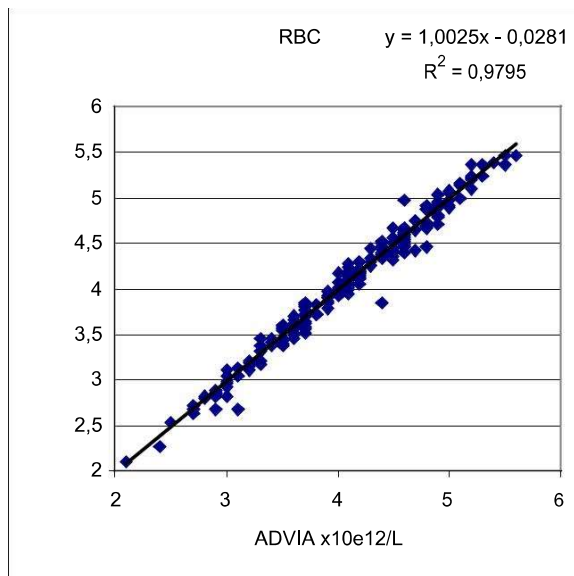


Figure 6. Correlation RBC between test system and reference system (n=219).

Erythrocytes, mean cell volume (MCV)

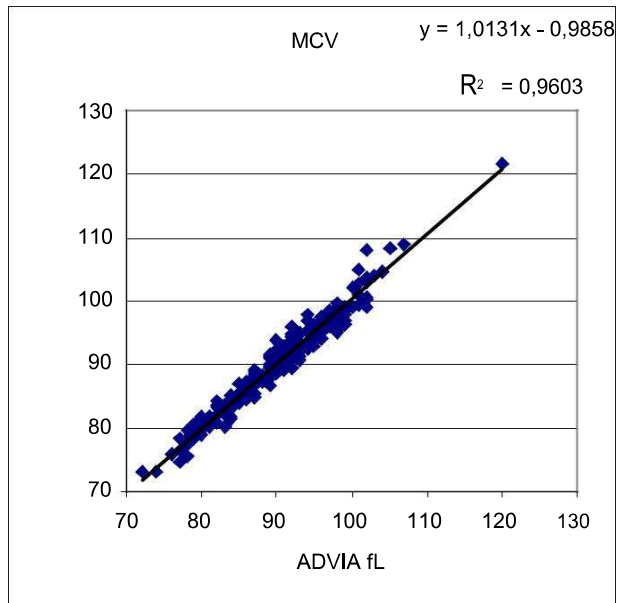


Figure 7. Correlation MCV between test system and reference system (n=218)

Thrombocytes, concentration (platelets, PLT)

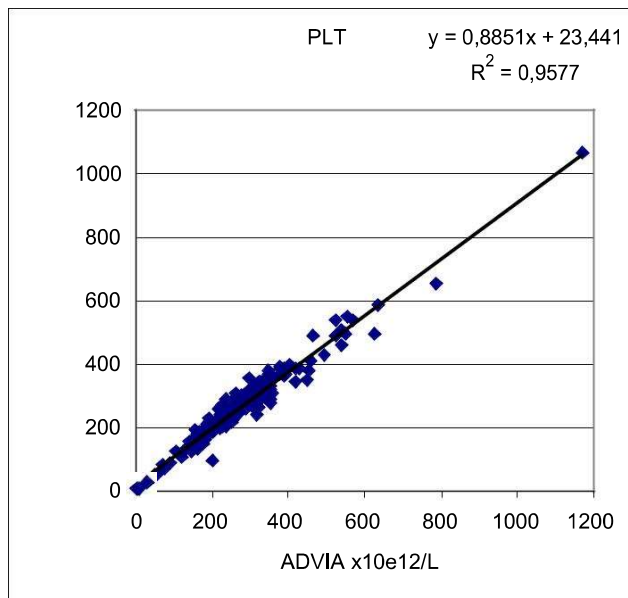


Figure 8. Correlation PLT between test system and reference system (n=219) .

Hemoglobin, concentration (HGB)

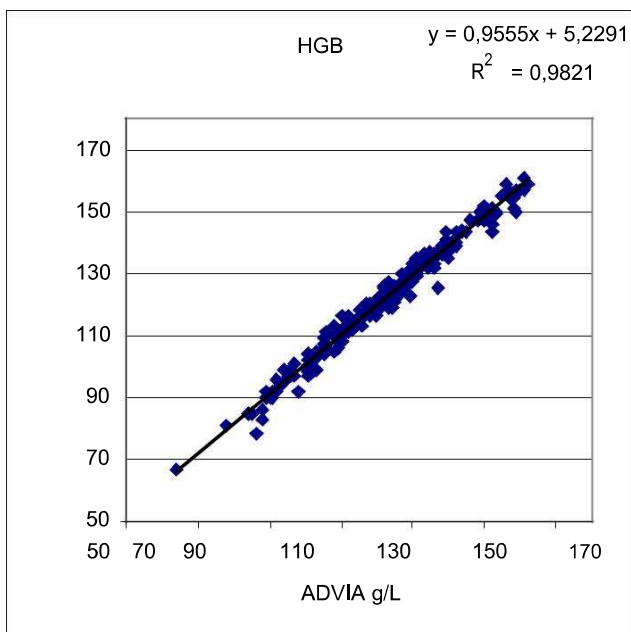


Figure 9. Correlation HGB between test system and reference system (n=236) .

Leucocytes, concentration (white blood cells, WBC)

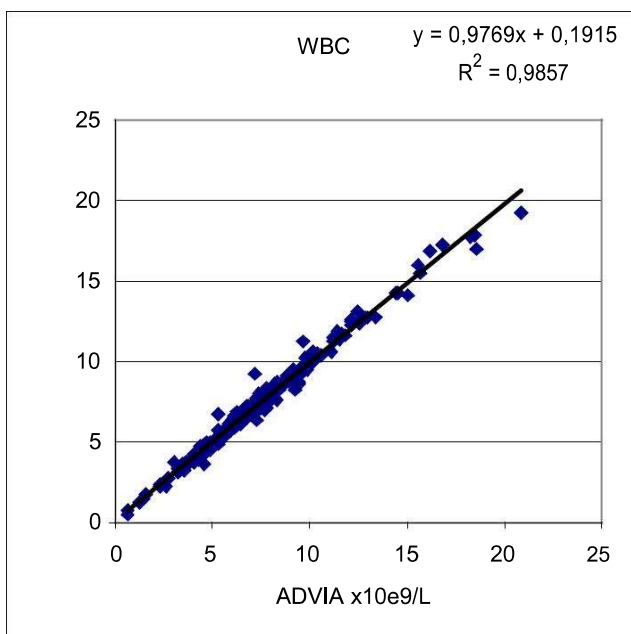


Figure 10. Correlation WBC between test system and reference system (n=483) ¹⁾.

Lymphocytes, concentration (Lymph)

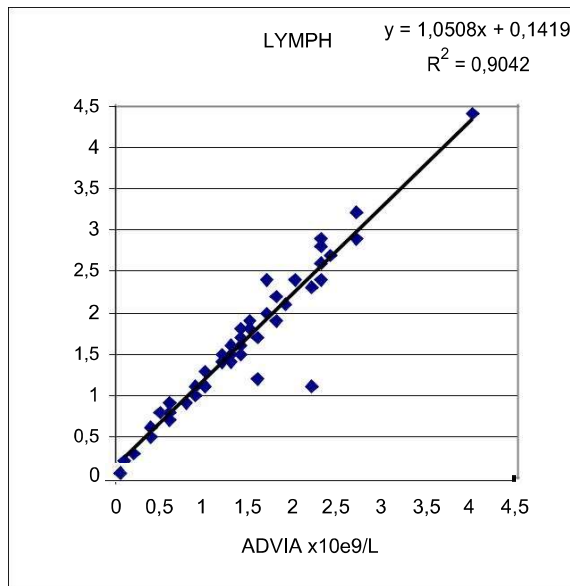


Figure 11. Correlation lymphocytes between test system and reference system (n=49) ¹⁾.

Granulocytes, concentration (Gran)

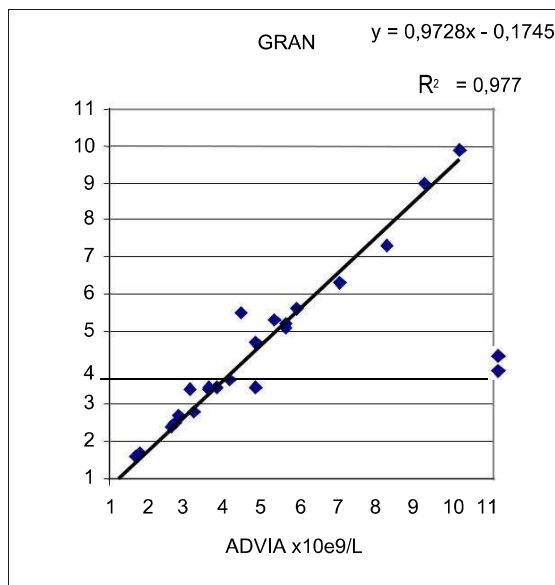


Figure 12. Correlation granulocytes between test system and reference system (n=49) ¹⁾. Neutrophilic, basophilic and eosinophilic cells have been summarized as granulocytes for the Advia results.

Additional notes to the results:

As a conclusion the correlation results were excellent meeting the specifications for linear correlations (R) to the reference system (Advia) as given below.

	RBC	MCV	PLT	HGB	WBC
Study	0.99	0.98	0.98	0.99	0.99
Specification	≥ 0.98	≥ 0.98	≥ 0.95	≥ 0.98	≥ 0.97

Table 5. Specification from Doc # 00003, R calculated from given - R² values.

Clinical Study # 2, Swelab Alfa vs ADVIA

Introduction

The second study was done to ensure that the linearity and correlation agreed with the results from an independent haematology system using an alternative operator (and to complement with additional lymphocyte and granulocyte values). The results are a part of the technical File (Doc # 02279) for the Swelab Alfa system.

The evaluation was performed as given below.

Clinical samples

The evaluation has been done in collaboration with The Karolinska University Hospital, Dept. Clinical Chemistry with reference values from a Bayer Advia 120 system.

The correlation studies are based on in total 100 samples taken randomly from the normal routine. Reference values have been available to varying extent depending on the studied parameter (number of complete data pairs (n) are given in the figures). The analysis has been performed in the open tube (OT) mode for the test system and the assay has been completed within 6 hours from the analysis in the reference system.

Result of the correlation studies

Erythrocytes, concentration (red blood cells, RBC)

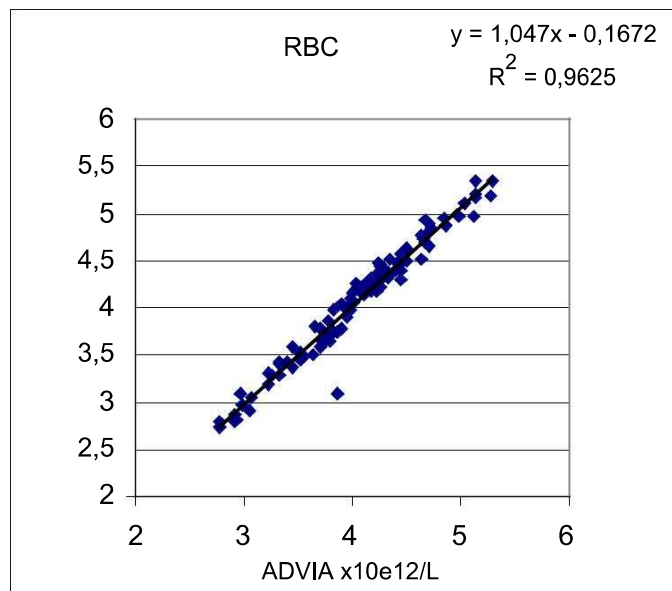


Figure 13. Correlation RBC between test system and reference system (n=8100).

Erythrocytes, mean cell volume (MCV)

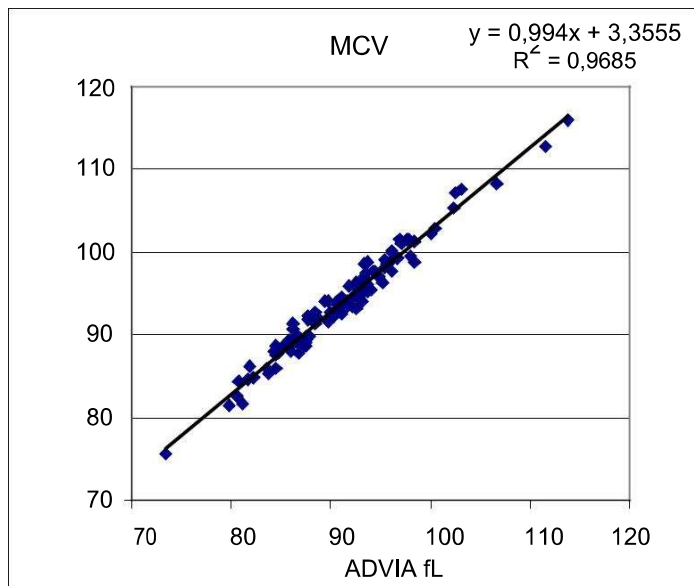


Figure 14. Correlation MCV between test system and reference system (n=100).

Thrombocytes, concentration (platelets, PLT)

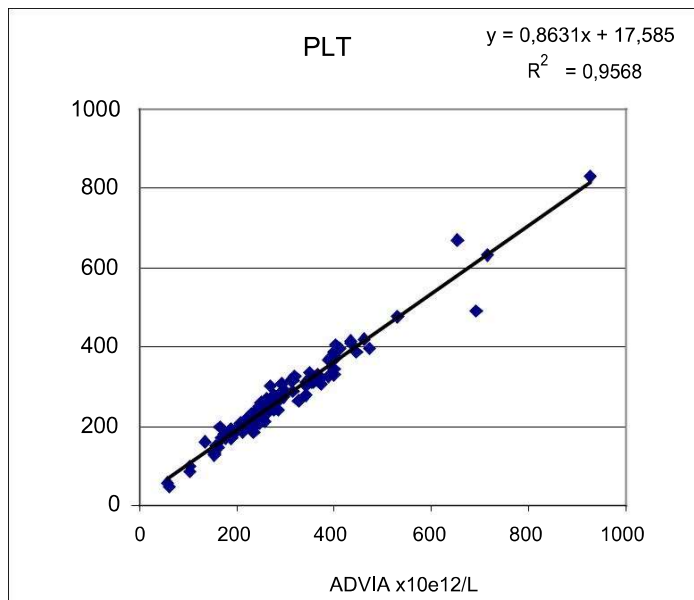


Figure 15. Correlation PLT between test system and reference system (n=100).

Hemoglobin, concentration (HGB)

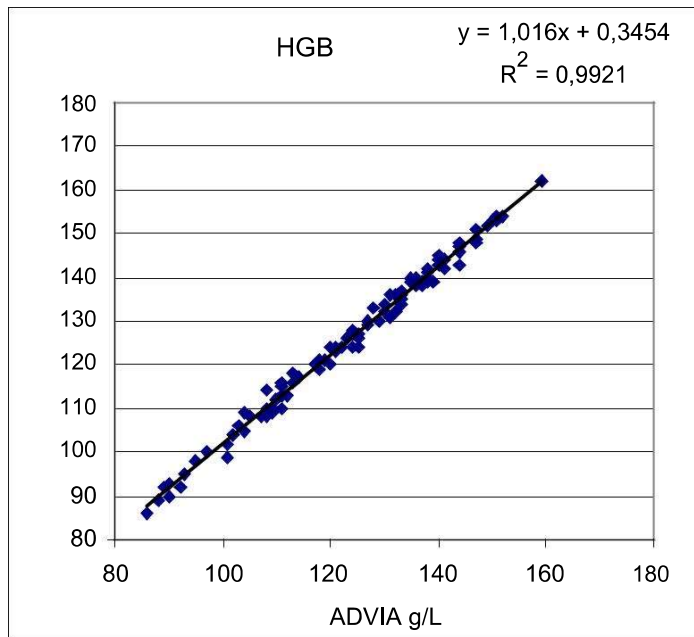


Figure 16. Correlation HGB between test system and reference system (n=100).

Leucocytes, concentration (white blood cells, WBC)

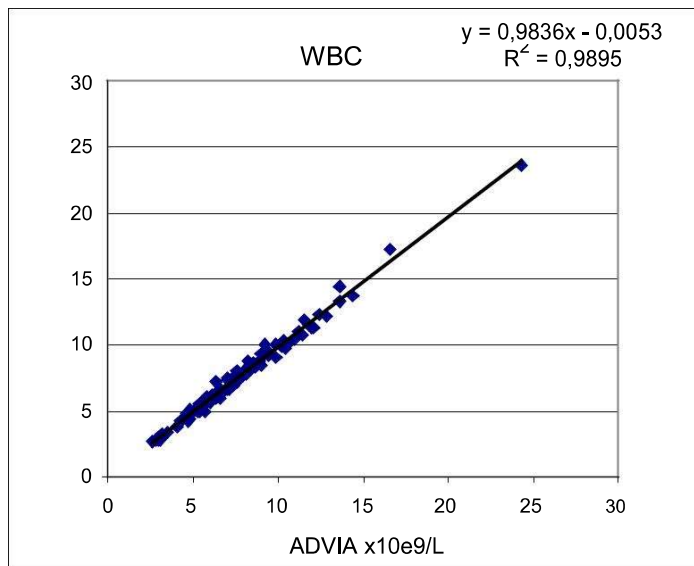


Figure 17. Correlation WBC between test system and reference system (n=100).

Lymphocytes, concentration (Lymph)

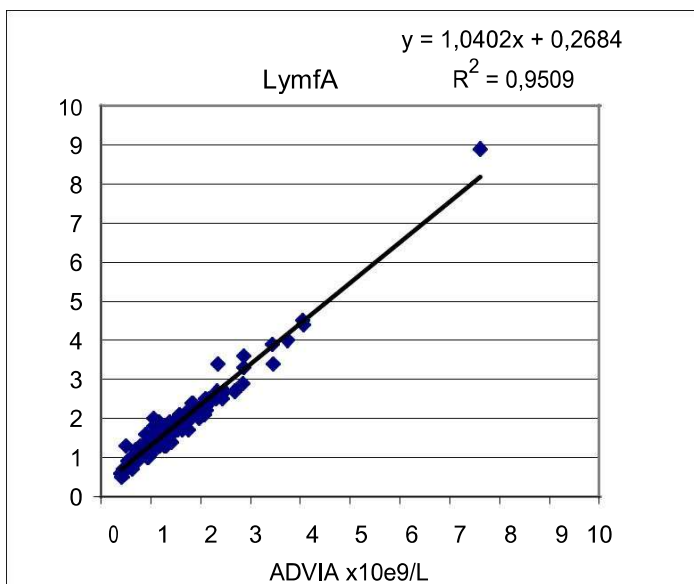


Figure 18. Correlation lymphocytes between test system and reference system (n=100).

Granulocytes, concentration (Gran)

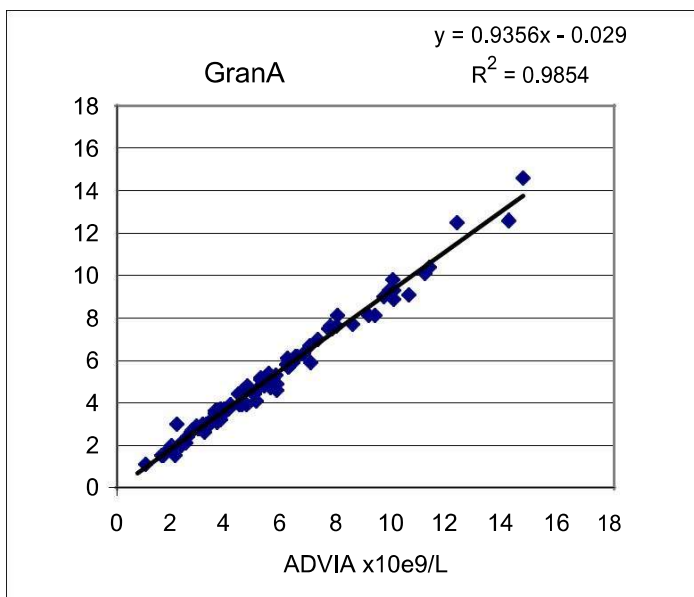


Figure 19. Correlation granulocytes between test system and reference system (n=100). Neutrophilic, basophilic and eosinophilic cells have been summarized as granulocytes for the Advia results.

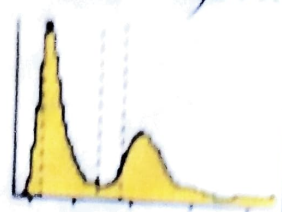
Additional notes to the results

- 1) One sample gave a significantly lower RBC result with the Swelab Alfa in comparison to the ADVIA reference. This sample was tested also on two other Alfa instruments with similar results. Thus, partial hemolysis during transport etc may have affected results in comparison to the original reference measurement.
- 2) Two sample gave a significantly different PLT results with the Swelab Alfa in comparison to the ADVIA reference. One sample had a PLT:DE flag. Both samples were tested also on two other Alfa instruments with similar results. Thus, changes during transport etc may have affected results in comparison to the original reference measurement
- 3) 3) The correlation between the test system (Swelab Alfa) and the reference system (ADVIA) was excellent in all other respects.

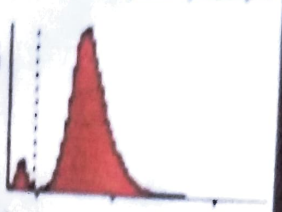
alfa

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

WBC 8.5 ER
 LYM 37.7 EP 44.3 %
 MID 0.5 EP 5.1 %
 GRAN 43.3 EP 50.6 %

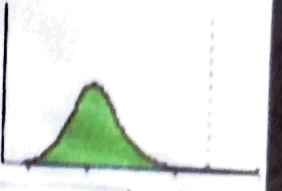


HGB L 11.4 ER
 MCH 27.5 MCHC 35.6



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 %



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Ruispenis

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 Bc
has done all parameters found in the given range
everything good and sample also standard.

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 ¹

Medonic

Parameter ²	RBC 10 ¹² /L	MCV fL	Plt 10 ⁹ /L	MPV fL	WBC 10 ⁹ /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 ± ³	0.10	2.0	15	1.5	0.3	0.2

Swelab

Parameter ²	RBC 10 ¹² /L	MCV fL	Plt 10 ⁹ /L	MPV fL	WBC 10 ⁹ /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 ± ³	0.10	2.0	15	1.5	0.3	0.2

	1	2	3
bg	Трайност на отворен флакон	5 дни	Обхват
hr	Stabilnost otvorene bočice	5 dni	Raspon
cs	Stabilita otevřené ampulky	5 dny	Rozsah
da	Åben r�r stabilitet	5 dage	Omr�de
et	Stabiilsus avatud viaalis	5 p�evade arv	Vahemik
fr	Stabilit� en flacon ouvert	5 jour	Intervalle
de	Stabilit�t ge�ffneter Flaschen	5 tage	Bereich
el	�στα�ρηση δειγματος μετ� την αποσφ�ραγιση	5 ημερα	Αναμενόμενο ε�ρος α
it	Stabilit� della fiala aperta	5 giorni	Intervallo
lv	Atv�rt flakonu stabilit�ti	5 dienas	Diapazons
lt	Stabilumas atidarius buteliuka	5 d.	Intervalas
no	�pen r�r/glass stabilitet	5 dager	Omr�de
pl	Trwa�o�c po otwarzeniu fiolek	5 Liczba dni	Zakres
pt	Estabilidade ap�s abertura do frasco	5 dias	Intervalo
ro	Termenul de valabilitate al fiolei desf�cute	5 zile	Interval
ru	�tabilno�t� vskrytogo flakona	5 dne�	�иапазон
sr	Proizvod stabilan nakon otvaranja pakovanja	5 dana	Opseg
sk	Stabilita otvorenej injek�nej liekovky	5 dni	Rozsah
sl	Stabilnost odprte stekleni�ke	5 dni	Obmo�je
es	Estabilidad de la c�psula abierta	5 dias	Intervalo
sv	H�llbarhet f�r �ppnad flaska	5 dagar	Intervall
tr	A�ık ŐiŐe stabilitesi	5 g�n	Araliđı

<http://www.medonic.se/>www.swelab.com/

Dejparamet
08/11/2021

Dejparamet
08/11/21

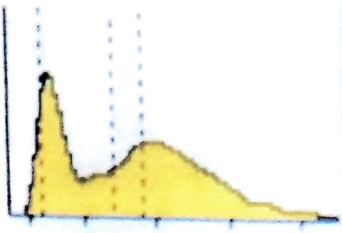
 **Boule**
Boule Medical AB
Domnarvsgatan 4
SE-163 53 Sp nga, Sweden

25123-3

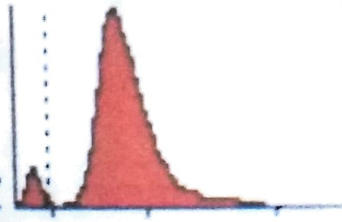
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ID: NORMAL QC PRE-CALIBRATION OT BLOOD

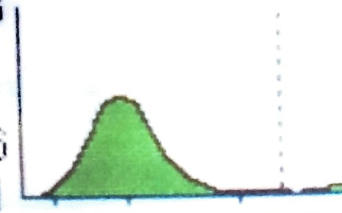
WBC 7.0 ER
LYM 2.5 ER 36.4 %
MID 1.0 ER 13.7 %
GRAN 3.5 ER 49.9 %



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



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Sample

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Quispamo

Swelab

ID: NORMAL

AFTER
REF-CALIBRATION

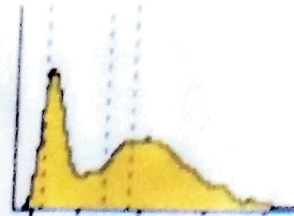
BLOOD

WBC 7.8 ER

LYM 2.8 ER 36.0%

MID 1.1 ER 13.8%

GRAN 3.9 ER 50.2%



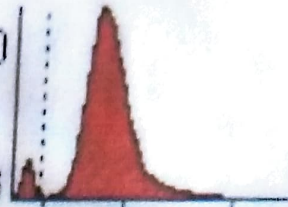
HGB 12.9 ER

MCH 32.3 MCHC 36.0

RBC 3.98 ER

MCV 85.1 RDW_a 46.8

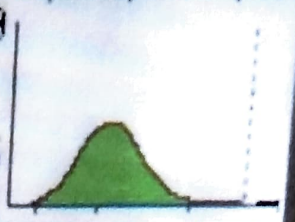
HCT \downarrow 33.9 RDW% 11.9



PLT 258 ER

MPV \uparrow 11.3 PDW 11.5

LPCF 39.0 PCT 0.29



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Sample

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Swelab

ID:LOW *POST-CALIBRATION*

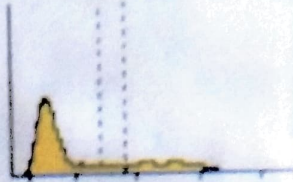
OT
BACKGROUND

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 %



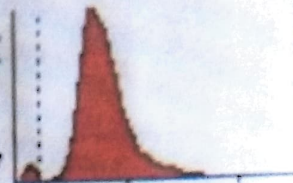
HGB **H** 7.8 **ER**

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

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

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

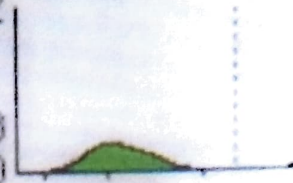
HCT **H** 20.4 RDW% **H** 12.2



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

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

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



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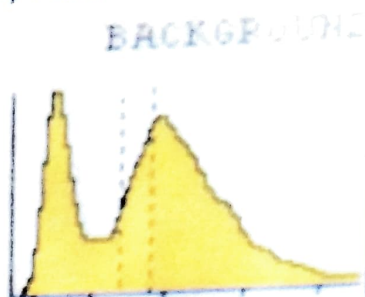
New Sample

Disipmes.

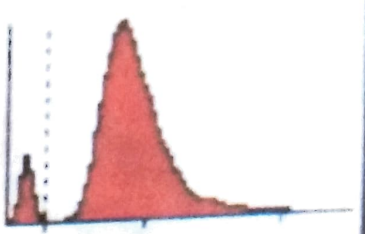
Swelab

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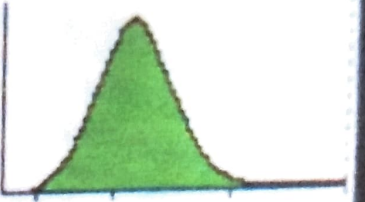
WBC **H** 19.5 DE
LYM **H** 8.3 ER **H** 32.4 %
MID **H** 3.0 ER **H** 15.2 %
GRAN **H** 10.2 ER **H** 52.4 %



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
LPCR **H** 42.2 PCT **H** 0.59



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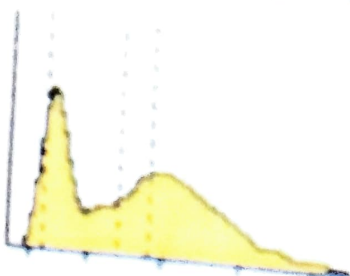
Swelab

ID: NORMAL QC PRE-CALIBRATION

WBC

7.0 ER

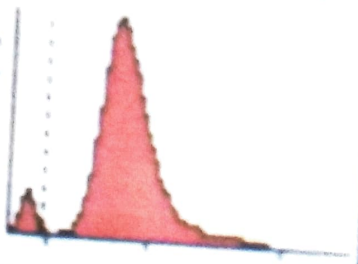
LYM	25	ER	36	4%
MID	10	ER	13	7%
GRAN	35	ER	49	9%



HGB

13.0 ER

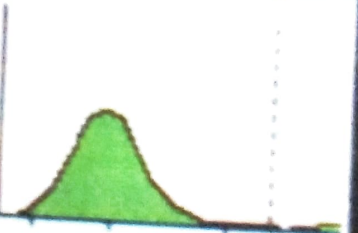
MCH	31	1	MCHC	36	2
-----	----	---	------	----	---



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



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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

Rajkumar 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

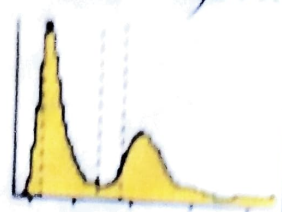
Ph : 044 - 4262 0001, Call : 07500 0000

alfa

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

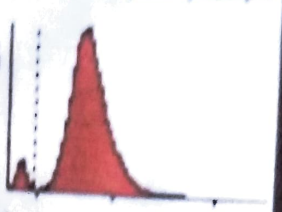
WBC 8.5 ER

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



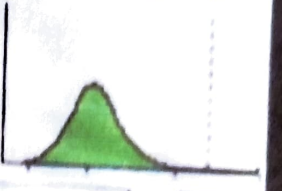
HGB L 11.4 ER

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



RBC 4.16 ER

MCV	77.2	RDW _s	42.6
HCT	L 32.1	RDW%	12.6



PLT 244 ER

MPV	10.7	PDW	10.3
LPCR	27.9	PCT	0.26



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Sample

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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, ANDRAVULLI 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 checked.

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, ANDRAVULLI MAIN ROAD,
SYNDICATE BANK LAYOUT, BENGALURU - 560 091.

Boule Cal

CAL**IVD**

Calibrator

Lot	
22109-34	2021-12-22

Open vial stability 5 days ¹**Medonic**

Parameter ²	RBC 10 ¹² /L	MCV fL	Plt 10 ⁹ /L	MPV fL	WBC 10 ⁹ /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 ± ³	0.10	2.0	15	1.5	0.3	0.2

Swelab

Parameter ²	RBC 10 ¹² /L	MCV fL	Plt 10 ⁹ /L	MPV fL	WBC 10 ⁹ /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 ± ³	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	Διατ�ρηση δειγματος μετ� την αποσφ�ραγιση
it	Stabilit� della fiala aperta
lv	Atv�rt flakonu stabilit�ti
lt	Stabilumas atidarius buteliuka
no	Åpen r�r/glass stabilitet
pl	Trwa�o�c po otwarzeniu fioleki
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 injek�nej liekovky
sl	Stabilnost odprte stekleni�ke
es	Estabilidad de la c�psula abierta
sv	H�llbarhet f�r �ppnad flaska
tr	A�ık ŐiŐe stabilitesi

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

<http://www.medonic.se/>www.swelab.com/

Diapazon 1
02/11/2021

02/11/21

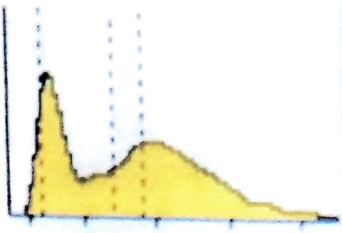
Boule
Boule Medical AB
Domnarvsgatan 4
SE-163 53 Sp nga, Sweden

25123-3

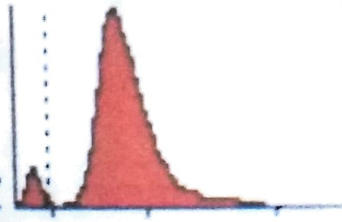
1504055

ID: NORMAL QC PRE-CALIBRATION OT BLOOD

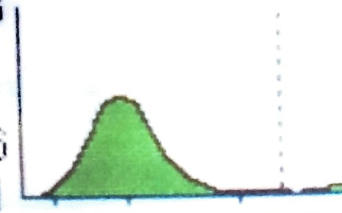
WBC 7.0 ER
LYM 2.5 ER 36.4 %
MID 1.0 ER 13.7 %
GRAN 3.5 ER 49.9 %



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

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Swelab

ID: NORMAL

AFTER
REF-CALIBRATION

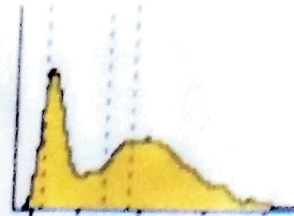
BLOOD

WBC 7.8 ER

LYM 2.8 ER 36.0%

MID 1.1 ER 13.8%

GRAN 3.9 ER 50.2%



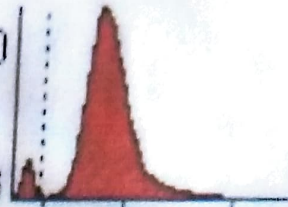
HGB 12.9 ER

MCH 32.3 MCHC 36.0

RBC 3.98 ER

MCV 85.1 RDW_a 46.8

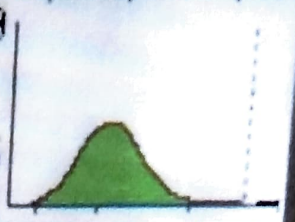
HCT \downarrow 33.9 RDW% 11.9



PLT 258 ER

MPV \uparrow 11.3 PDW 11.5

LPCR 39.0 PCT 0.29



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ID:LOW *POST-CALIBRATION*

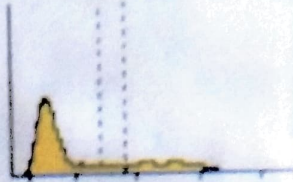
OT
BACKGROUND

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 %



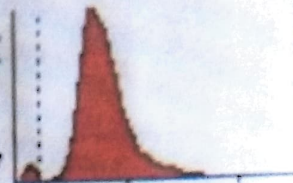
HGB **H** 7.8 **ER**

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

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

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

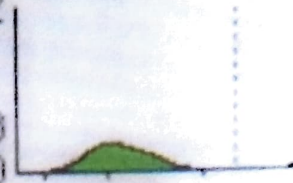
HCT **H** 20.4 RDW% **H** 12.2



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

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

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



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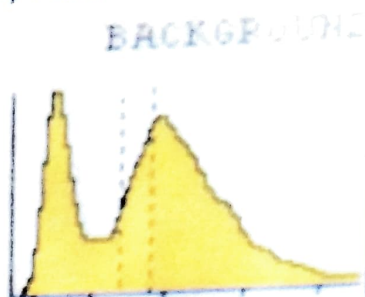
New Sample

Discrepancy.

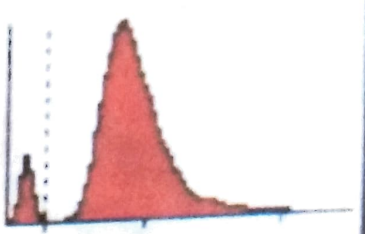
Swelab

ID:HIGH *Post-CALIBRATION*

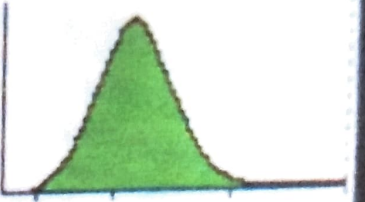
WBC **H** 19.5 DE
LYM **H** 8.3 ER **H** 32.4 %
MID **H** 3.0 ER **H** 15.2 %
GRAN **H** 10.2 ER **H** 52.4 %



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
LPCR **H** 42.2 PCT **H** 0.59



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Deviyani

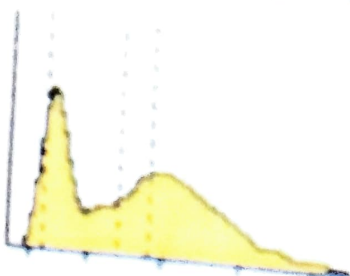
Swelab

ID: NORMAL QC PRE-CALIBRATION

WBC

7.0 ER

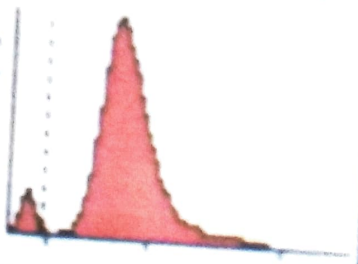
LYM	25	ER	36	4%
MID	10	ER	13	7%
GRAN	35	ER	49	9%



HGB

13.0 ER

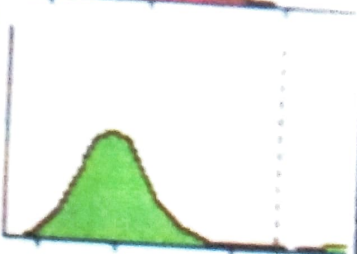
MCH	31	1	MCHC	36	2
-----	----	---	------	----	---



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



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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's 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



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
Complete Blood Count [CBC]			
Haemoglobin	18.4	g/dl	13.5 - 17.5
Haematocrit	59.0	%	37 - 53
Red Blood Cell Count	6.01	$\times 10^6/\mu\text{L}$	4.50 - 5.90
MCV	98.1	fL	80 - 100
MCH	30.6	pg	26 - 34
MCHC	31.2	%	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	Result(s)	Biological Reference Interval
PCV (HAEMATOCRIT) (Electrical Impedance Variation calculated)	53.5 %	Adults- Females: 36-46% Males: 40-50% Birth: 45-75% 1month:33-53% 1year: 30-38% 2-6yrs: 34-40% 6-12yrs: 35-45%
MCV (Electrical Impedance Variation calculated)	88.6 fl	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
MCH (Electrical Impedance Variation calculated)	29.6 pg	Adults & Children: 27-32 pg
MCHC (Electrical Impedance Variation calculated)	33.5 g/dL	Adults & Children : 31.5 - 34.5 g/dL
RDW	13.9 %	11.6 - 14.6%
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

Received At
11/10/2021 17:26

Sample
EDTA

Dr Sahana V V
MD Pathology
Consultant Pathologist
KMCNo94539
Reported On : 11/10/2021 18:26

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.



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 :

RBCing 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: