

First Name: EQWS
Last Name:
Patient ID:
Sample ID: 1
Mode: WB
Time of Analysis: 24-07-2024 11:02

| Modules | | Result | Unit |
|---------|----|--------|---------------------|
| WBC | R | 4.9 | 10 ³ /uL |
| Lymph# | R | 1.7 | 10 ³ /uL |
| Mid# | R | 0.7 | 10 ³ /uL |
| Gran# | R | 2.5 | 10 ³ /uL |
| Lymph% | R | 35.7 | % |
| Mid% | RH | 15.1 | % |
| Gran% | RL | 49.2 | % |
| RBC | R | 3.91 | 10 ⁶ /uL |
| HGB | R | 12.1 | g/dL |
| HCT | R | 38.1 | % |
| MCV | R | 97.3 | fL |
| MCH | R | 30.9 | pg |
| MCHC | RL | 31.8 | g/dL |
| RDW-CV | R | 15.0 | % |
| RDW-SD | R | 50.0 | fL |
| PLT | RL | 100 | 10 ³ /uL |
| MPV | RH | 14.4 | fL |
| PDW | RH | 17.8 | |
| PCT | R | 0.145 | % |
| P-LCC | R | 60 | 10 ⁹ /L |
| P-LCR | RH | 59.5 | % |

[This report only applies to the corresponding sample analyzed]

First Name: EQWS
Last Name:
Patient ID:
Sample ID: 2
Mode: WB
Time of Analysis: 24-07-2024 11:05

| Modules | | Result | Unit |
|---------|----|--------|---------------------|
| WBC | R | 5.0 | 10 ³ /uL |
| Lymph# | R | 1.8 | 10 ³ /uL |
| Mid# | R | 0.8 | 10 ³ /uL |
| Gran# | R | 2.4 | 10 ³ /uL |
| Lymph% | R | 35.0 | % |
| Mid% | RH | 15.7 | % |
| Gran% | RL | 49.3 | % |
| RBC | R | 3.90 | 10 ⁶ /uL |
| HGB | R | 12.1 | g/dL |
| HCT | R | 37.9 | % |
| MCV | R | 97.3 | fL |
| MCH | R | 31.0 | pg |
| MCHC | RL | 31.8 | g/dL |
| RDW-CV | R | 15.2 | % |
| RDW-SD | R | 50.7 | fL |
| PLT | RL | 107 | 10 ³ /uL |
| MPV | RH | 15.5 | fL |
| PDW | RH | 18.6 | |
| PCT | R | 0.166 | % |
| P-LCC | R | 65 | 10 ⁹ /L |
| P-LCR | RH | 60.9 | % |

[This report only applies to the corresponding sample analyzed]



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. : 6693

Distribution No.: 164-Q

Month/Year: July/2024

Instrument ID: VANALYZE-V30S

Model Name: V30S

Serial No.: TH-3A016370T

Name & Contact No. of PT Co-ordinator: Dr. Manoranjan Mahapatra (Prof. & Head), Hematology, AIIMS, Delhi,
 Tel: 9013085730, E-Mail : info@ishtmailmseqap.com

Date of issue & status of the report: 12-09-2024 [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 | Your Results Diff. of 2 Values | Consensus Result Diff. of 2 values (Assigned Value) | Uncertainty of Assigned Values | Z Score |
| WBC x10 ³ /µl | 1 | 5 | 4.9 | 9.9 | 9.45 | 0.050 | 0.44 | 0.1 | 0.12 | 0.011 | -0.13 |
| RBC x10 ⁶ /µl | 1 | 3.91 | 3.9 | 7.81 | 8.2 | 0.013 | -1.38 | 0.01 | 0.04 | 0.003 | -0.58 |
| Hb g/dl | 1 | 12.1 | 12.1 | 24.2 | 25.5 | 0.036 | -1.75 | 0 | 0.1 | 0.009 | -0.67 |
| HCT% | 1 | 38.1 | 37.9 | 76 | 75.9 | 0.198 | 0.02 | 0.2 | 0.3 | 0.029 | -0.22 |
| MCV-fI | 1 | 97.3 | 97.3 | 194.6 | 185.5 | 0.364 | 0.99 | 0 | 0.3 | 0.023 | -0.81 |
| MCH-Pg | 1 | 31 | 30.9 | 61.9 | 62 | 0.099 | -0.04 | 0.1 | 0.2 | 0.018 | -0.34 |
| MCHC-g/dl | 1 | 31.8 | 31 | 62.8 | 66.9 | 0.165 | -1.02 | 0.8 | 0.3 | 0.024 | 1.35 |
| Plt. x10 ³ /µl | 1 | 107 | 100 | 207 | 239 | 1.683 | -0.84 | 7 | 5 | 0.386 | 0.34 |
| Retic % | 2 | | | | | | | | | | |

P.S . Assesment

| YOUR REPORT | | | CONSENSUS REPORT | | |
|----------------|---|---|---|--|--|
| DLC% | 3 | Nrbcs=00, Poly=03 L=02, E=00, Mono/Promono=00, B1=95 P.M.=00, Mye=00, Meta=00, Other=00 | Blast: 84.25 - 93, Lympho: 2 - 6, Poly: 2 - 6, Mono/Myelo/Meta/Eos/Promyelo/Baso : 0-5 | | |
| RBC Morphology | 3 | Normocytic (+), Microcytic (+), Anisocytosis (+) | Predominantly: Normocytic/ Normochromic, Moderate: Macrocytic, Mild: Tear drop cells, Macroovalocytes++ | | |
| Diagnosis | 3 | Acute leukemia ? ALL | Acute Leukemia (AL) | | |

COMBINED DATA VALUES OF TOTAL PARTICIPANTS

| parameters | S.No. | Total participants covered in the current dist. 164--Q | 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 ³ /μl | 1 | 259 | 259 | 78.76 | 85.33 | 4.63 | 1.93 | 16.610 | 12.74 |
| RBC x10 ⁶ /μl | 1 | 259 | 259 | 83.4 | 87.64 | 8.11 | 3.47 | 8.49 | 8.89 |
| Hb g/dl | 1 | 259 | 259 | 81.47 | 82.24 | 10.81 | 5.79 | 7.72 | 11.97 |
| HCT% | 1 | 259 | 259 | 89.19 | 88.8 | 5.41 | 3.86 | 5.4 | 7.34 |
| MCV-fl | 1 | 259 | 259 | 92.66 | 87.64 | 5.79 | 3.47 | 1.55 | 8.89 |
| MCH-Pg | 1 | 259 | 259 | 90.35 | 86.49 | 6.56 | 6.18 | 3.09 | 7.33 |
| MCHC-g/dl | 1 | 259 | 259 | 91.89 | 89.19 | 6.56 | 1.93 | 1.55 | 8.88 |
| Plt. x10 ³ /μl | 1 | 259 | 259 | 90.73 | 86.87 | 4.63 | 5.41 | 4.64 | 7.72 |
| ReticCount% | 2 | 259 | 195 | 91.28 | 96.41 | 4.62 | 0.51 | 4.1 | 3.08 |
| PS Assessment | 3 | 259 | 210 | Satisfactory :94.99%, Borderline Sat. :2.31%, Unsatisfactory :2.70% | | | | | |

Comments:

- 1). Among Lab (EQA) : Results acceptable.
- 2). Within Lab (IQA) : 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

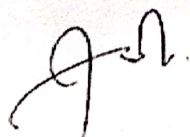
Note-7: Participants are free to use methods/analyzer of their own choice.

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.

Note 10: Reports are kept confidential.

Report authorized by,



Dr. Manoranjan Mahapatra (Prof. & Head)
PT Co-ordinator: ISHTM-AIIMS-EQAP
Department of Hematology, AIIMS, New Delhi

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