



**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. :** 5081

**Distribution No.:** 158-M

**Month/Year:** January/2023

**Instrument ID:** Eurocount 5L 5part 952305022IEJCP

**Name & Contact No. of PT Co-ordinator:** Dr. Seema Tyagi (Prof.), Hematology, AIIMS, Delhi,  
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**Date of issue & status of the report:** 28-02-2023[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	9.11	8.97	18.08	13.31	0.0350	5.46	0.14	0.1	0.0070	0.42
RBC x10 <sup>6</sup> /µl	1	5	4.99	9.99	10.25	0.0120	-0.72	0.01	0.05	0.0030	-0.77
Hb g/dl	1	13.5	13.2	26.7	26.5	0.0270	0.27	0.3	0.1	0.0080	1.35
HCT%	1	46.6	46.5	93.1	85.7	0.2190	0.99	0.1	0.4	0.0250	-0.77
MCV-fl	1	93.4	93.1	186.5	169.35	0.3530	1.49	0.3	0.3	0.0190	0.00
MCH-Pg	1	27.1	26.5	53.6	51.5	0.0590	1.29	0.6	0.2	0.0140	1.80
MCHC-g/dl	1	29	28.5	57.5	61	0.1400	-0.64	0.5	0.3	0.0210	0.67
Plt. x10 <sup>3</sup> /µl	1	414	383	797	781	2.99	0.18	31	9	0.52	2.70
Retic %	2	8.1	7.4	15.5	15.35	0.22	0.03	0.7	0.5	0.03	0.34

### P.S . Assesment

YOUR REPORT			CONSENSUS REPORT		
<b>DLC%</b>	3	Nrbcs=0 , Poly=7 L=2, E=2, Mono/Promono=1 , B1=82 P.M.=6, Mye=0, Meta=0, Other=0	Blast: 65-88, Lympho: 5-14, Poly: 2-5, nRBC/Eos/Baso/Mono /Myelo/Meta/ Promyelo: 0-5		
<b>RBC Morphology</b>	3	minimal anisocytosis & poikilocytosis .normocytosis ,normochromic,	Predominantly: Normocytic/ Normochromic, Moderate: Anisocytosis, Microcytic		
<b>Diagnosis</b>	3	Acute myeloid leukemia with thrombocytopenia .	Acute Leukemia (AL)		

**COMBINED DATA VALUES OF TOTAL PARTICIPANTS**

Test parameters	S.No.	Total participants covered in the current dist. 158--M	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
<b>WBC x10<sup>3</sup>/µl</b>	1	338	335	83.88	84.18	6.27	6.27	9.85	9.55
<b>RBC x10<sup>6</sup>/µl</b>	1	338	338	89.64	89.35	5.92	5.03	4.44	5.62
<b>Hb g/dl</b>	1	338	338	88.76	85.21	5.03	4.44	6.21	10.35
<b>HCT%</b>	1	338	336	97.92	89.88	0.89	5.36	1.19	4.76
<b>MCV-fl</b>	1	338	336	97.62	87.2	1.79	6.55	0.59	6.25
<b>MCH-Pg</b>	1	338	336	88.39	89.58	7.44	4.76	4.17	5.66
<b>MCHC-g/dl</b>	1	338	336	98.21	86.9	0.89	7.74	0.9	5.36
<b>Plt. x10<sup>3</sup>/µl</b>	1	338	336	94.64	92.26	3.27	2.98	2.09	4.76
<b>ReticCount%</b>	2	338	296	91.22	85.14	6.08	9.8	2.7	5.06
<b>PS Assessment</b>	3	338	283	Satisfactory :97.93%, Borderline Sat. :1.18%, Unsatisfactory :0.890%					

**\*Comments:**

- 1). Among Lab (EQA) : CBC result for WBC unacceptable, may be due to random/human error**
- 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  $\pm 2$ : Acceptable, Z score  $\pm 2$  to  $\pm 3$  :Warning Signal, Z score  $> \pm 3$  : Unacceptable [As per ISO/IEC 13528:2015 standard]

**Note-4:** Z score value between " $0$  to  $\pm 2$ " are texted in green colour. Z score value between " $\pm 2$  to  $\pm 3$ " are texted in orange colour. Z score value  $> \pm 3$  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](http://www.ishtmaiimseqap.com).

**Note 10:** Reports are kept confidential.

Report authorized by,



Dr. Seema Tyagi (Prof.)

PT Co-ordinator: ISHTM-AIIMS-EQAP

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