



**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. : 1207

Distribution No.: 156-C

Month/Year: May/2022

Instrument ID: YUMIZEN H550 (006YAXH03049)

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: 12-07-2022[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	4.13	3.81	7.94	41.35	0.2760	-1.56	0.32	0.21	0.0140	0.37
RBC x10 <sup>6</sup> /µl	1	4.35	4.2	8.55	8.63	0.0080	-0.35	0.15	0.03	0.0020	3.24
Hb g/dl	1	13.4	13	26.4	26.4	0.0330	0.00	0.4	0.1	0.0080	2.02
HCT%	1	40.4	39.7	80.1	83.6	0.2070	-0.56	0.7	0.4	0.0240	0.81
MCV-fl	1	94.5	92.8	187.3	194.1	0.4040	-0.57	1.7	0.3	0.0250	2.36
MCH-Pg	1	30.9	30.7	61.6	61.1	0.0840	0.22	0.2	0.2	0.0160	0.00
MCHC-g/dl	1	33.1	32.7	65.8	62.6	0.1590	0.70	0.4	0.3	0.0170	0.34
Plt. x10 <sup>3</sup> /µl	1	211	198	409	346	3.20	0.62	13	5	0.31	1.44
Retic %	2	7.7	7.2	14.9	7.85	0.12	2.08	0.5	0.3	0.02	0.90

### P.S . Assesment

YOUR REPORT		CONSENSUS REPORT
DLC%	3	Nrbcs=1 , Poly=8 L=10, E=, Mono/Promono=01 , B1=80 P.M.=, Mye=, Meta=, Other=
RBC Morphology	3	macrocytic normochromic with moderate anisocytosis.
Diagnosis	3	Acute Leukemia S/o AML

Blast: 49-70, Lympho: 12-27 ,Poly: 9-17, /mono:1-5  
 nRBC/Eosino/Myelo/Meta/promyelo: 0-2

Predominantly: Normocytic/ Normochromic, Moderate: Anisocytosis, Microcytic , macrocytes, Tear drop cells

Acute Leukemia (AL)

**COMBINED DATA VALUES OF TOTAL PARTICIPANTS**

Test parameters	S.No.	Total participants covered in the current dist. 156--C	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	348	346	99.13	89.88	0.29	3.47	0.58	6.65
<b>RBC x10<sup>6</sup>/µl</b>	1	348	348	91.09	90.8	4.6	3.74	4.31	5.46
<b>Hb g/dl</b>	1	348	348	85.92	87.93	6.61	4.6	7.47	7.47
<b>HCT%</b>	1	348	347	88.47	89.05	4.9	3.75	6.63	7.2
<b>MCV-fl</b>	1	348	347	88.47	91.93	3.75	4.61	7.78	3.46
<b>MCH-Pg</b>	1	348	347	87.32	87.61	5.76	6.92	6.92	5.47
<b>MCHC-g/dl</b>	1	348	347	91.64	86.46	4.9	4.9	3.46	8.64
<b>Plt. x10<sup>3</sup>/µl</b>	1	348	347	95.39	91.64	3.46	3.46	1.15	4.9
<b>ReticCount%</b>	2	348	330	90.91	82.12	7.27	12.73	1.82	5.15
<b>PS Assessment</b>	3	348	327	Satisfactory :94.27%, Borderline Sat. :4.59%, Unsatisfactory :1.14%					

**\*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  $\pm 2$ : 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

Department of Hematology, AIIMS, New Delhi

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