



**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. : 1893

Distribution No.: 158-E      Month/Year: November/2022

Instrument ID: TW - 03000947

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Date of issue &amp; status of the report: 24-01-2023[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	7.82	7.45	15.27	15.7	0.0450	-0.36	0.37	0.13	0.0080	2.31
RBC x10 <sup>6</sup> /µl	1	3.36	3.35	6.71	6.92	0.0070	-1.13	0.01	0.03	0.0020	-0.54
Hb g/dl	1	12.6	12.6	25.2	25.1	0.0210	0.19	0	0.1	0.0080	-1.35
HCT%	1	41.1	41	82.1	78.3	0.1850	0.71	0.1	0.4	0.0250	-1.01
MCV-f	1	123.3	123.2	246.5	225.75	0.5040	1.45	0.1	0.3	0.0230	-0.54
MCH-Pg	1	37.7	37.3	75	72.6	0.0840	1.21	0.4	0.3	0.0210	0.34
MCHC-g/dl	1	30.5	30.2	60.7	63.75	0.1540	-0.63	0.3	0.3	0.0190	0.00
Plt. x10 <sup>3</sup> /µl	1	203	203	406	459	1.62	-1.32	0	5	0.35	-0.96
Retic %	2										

**P.S . Assesment**

YOUR REPORT		CONSENSUS REPORT
DLC%	3	Nrbcs=0 , Poly= L=, E=, Mono/Promono= , B1= P.M.=, Mye=, Meta=, Other=
RBC Morphology	3	Predominantly: Normocytic/Normochromic; Moderate: Microcytosis, Hypochromia; Mild: Anisocytosis, Macrocytosis
Diagnosis	3	Acute Myeloid Leukemia (AML)

**COMBINED DATA VALUES OF TOTAL PARTICIPANTS**

Test parameters	S.No.	Total participants covered in the current dist. 158--E	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	291	289	84.08	88.24	3.81	5.54	12.11	6.22
RBC x10 <sup>6</sup> /μl	1	291	291	88.32	93.47	7.56	2.41	4.12	4.12
Hb g/dl	1	291	291	87.97	90.38	4.12	6.53	7.91	3.09
HCT%	1	291	289	96.54	92.39	2.08	3.81	1.38	3.8
MCV-fl	1	291	288	97.92	95.14	1.39	2.08	0.69	2.78
MCH-Pg	1	291	288	87.15	87.5	8.33	7.29	4.52	5.21
MCHC-g/dl	1	291	288	96.88	86.46	2.43	6.25	0.69	7.29
Plt. x10 <sup>3</sup> /μl	1	291	289	89.97	92.39	7.27	2.42	2.76	5.19
ReticCount%	2	291	260	97.31	89.62	2.69	1.54	0	8.84
PS Assessment	3	291	264	Satisfactory :87.3%, Borderline Sat. :5.49%, Unsatisfactory :7.21%					

**Comments:**

- 1). Among Lab (EQA) : PS Diagnosis not reported, remaining 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

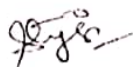
**Note-7:** Participants are free to use methods/analyzer of their own choice.

**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](http://www.ishtmaiimseqap.com).

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

Report authorized by,



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