



**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.: 2781

Distribution No.: 154-G

Month/Year: September/2021

Instrument ID: TH-96006590

Name & Contact No. of PT Co-ordinator: Dr. Seema Tyagi (Prof.), Hematology, AIIMS, Delhi, Tel: 9013085730, E-Mail: accuracy2000@gmail.com

Date of issue & status of the report: 11-01-2022 [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	4.1	3.9	8	7.7	0.0250	0.54	0.2	0.1	0.0720	1.04
RBC x10 <sup>6</sup> /μl	1	3.67	3.63	7.3	7.51	0.0880	-1.08	0.04	0.04	0.0020	0.00
Hb g/dl	1	11.8	11.8	23.6	22.7	0.0250	1.73	0	0.1	0.0090	-1.35
HCT%	1	32.1	31.7	63.8	67.5	0.1390	-1.08	0.4	0.3	0.0250	0.27
MCV-fl	1	87.5	87.3	174.8	180.55	0.3090	-0.64	0.2	0.3	0.0230	-0.34
MCH-Pg	1	32.5	32.2	64.7	60.5	0.0780	2.58	0.3	0.3	0.0200	0.00
MCHC-g/dl	1	37.2	36.8	74	66.5	0.1400	2.11	0.4	0.3	0.0230	0.34
Plt. x10 <sup>3</sup> /μl	1	174	159	333	301	1.13	1.23	15	5	0.41	2.25
Retic %	2	13.3	12.5	25.8	30	0.78	-0.21	0.8	1	0.06	-0.18

**P.S. Assessment**

YOUR REPORT			CONSENSUS REPORT		
DLC%	3	Nrbcs=2, Poly=5 L=3, E=1, Mono/Promono=1, B1=90 P.M.=0, Mye=0, Meta=0, Other=	Blasts: 65-85, Lymph: 2-6, nRBC/Poly/Eo/Mono: 0-5, Pro: 0-10, Myelo/Meta: 0-5.		
RBC Morphology	3	PREDOMINANTLY MICROCYTIC HYPOCHROMIC RBCs SEEN WITH FEW NORMOCYTIC NORMOCHROMIC RBCs, FEW TEAR DROP CELLS AND OCCASIONAL nRBCs. MILD ANISOCYTOSIS.	Predominantly: Normocytic, Normochromic. Moderate: Microcytic. Mild Anisocytosis.		

EQAP CodeNo.:2781

DistributionNo.:151-GMonth/Year:September/2021 InstrumentID:TH-96006590

**COMBINED DATA VALUES OF TOTAL PARTICIPANTS**

Test parameters	S.No.	Total participants covered in the current dist.	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	350	243	84.77	86.42	3.29	6.17	12.35	6.58
RBC x10 <sup>6</sup> /μl	1	350	243	87.24	90.95	6.58	4.12	6.58	4.53
Hb g/dl	1	350	243	84.77	88.07	6.58	0.41	9.05	7.82
HCT%	1	350	243	94.24	88.48	3.7	4.53	2.47	6.58
MCV-fl	1	350	243	97.53	82.72	2.06	9.88	0.82	7.82
MCH-Pg	1	350	243	82.72	88.89	11.52	4.53	6.17	6.58
MCHC-g/dl	1	350	243	95.47	87.24	3.29	5.76	1.65	7
PLT x10 <sup>3</sup> /μl	1	350	243	90.12	85.6	7.41	6.58	2.88	8.23
ReticCount%	2	350	220	96.36	93.18	2.73	3.18	1.36	4.09
PS Assessment	3	350	224	Acceptable:88.4% Warning Signal:7.3%,Unacceptable :4.3%					

**\*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 (x-y) should be smaller than the check value (0.3\*SDPA).

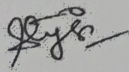
**Note-6:** ISHTM-AIIMS-EQAP does not subcontract any task of its scheme

**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).

Report authorized by,



Dr. Seema Tyagi (Prof.)

PT Co-ordinator: ISHTM-AIIMS-EQAP

Department of Hematology, AIIMS, New

Delhi

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