



**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. : 803

Distribution No.: 153-A

Month/Year: July/2021

Instrument ID: Sysmex B 2607

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: 25-07-2021[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	3.9	3.6	7.5	6.9	0.0290	0.71	0.3	0.1	0.0050	2.45
RBC x10 <sup>6</sup> /µl	1	4.19	4.18	8.37	8.28	0.0060	0.53	0.01	0.03	0.0020	-0.67
Hb g/dl	1	10.7	10.6	21.3	20.6	0.0130	1.57	0.1	0.1	0.0060	0.00
HCT%	1	34.5	34.4	68.9	66.1	0.1080	0.90	0.1	0.2	0.0130	-0.45
MCV-fl	1	82.3	82.3	164.6	159.7	0.2100	0.77	0	0.2	0.0200	-0.67
MCH-Pg	1	25.6	25.3	50.9	50	0.0410	0.81	0.3	0.2	0.0110	0.67
MCHC-g/dl	1	31.1	3.07	34.17	62.4	0.1010	-9.07	28.03	0.2	0.0130	93.86
Plt. x10 <sup>3</sup> /µl	1	118	114	232	276	1.08	-1.42	4	5	0.33	-0.17
Retic %	2	3.5	3	6.5	2.5	0.05	2.84	0.5	0.13	0.01	3.33

### P.S . Assesment

YOUR REPORT		CONSENSUS REPORT	
DLC%	3	Nrbcs=05 , Poly=10/16/0 L=0, E=01, Mono/Promono=0 , B1=21 P.M.=06, Mye=16, Meta=30, Other=	Poly: 30 - 60, Blast: 5 - 30, Myelo: 5 - 20, Meta/nRBC: 1 - 15, Promyelo/Eos/Baso/Lympho/Mono: 0 - 5
RBC Morphology	3	Ncnc, pencil shaped cells +, mild anisocytosis	Predominantly: Normocytic/Normochromic; Moderate: Anisocytosis, Microcytosis, Hypochromia; Mild: Macrocytosis, Poikilocytosis
Diagnosis	3	CML-Blast crisis phase	Chronic Myeloid Leukemia (Blast crisis) / Acute Myeloid Leukemia

**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	360	358	88.55	89.66	2.79	1.96	8.66	8.1
RBC x10 <sup>6</sup> /µl	1	360	358	87.71	88.55	6.42	6.98	5.87	4.47
Hb g/dl	1	360	358	91.34	45.25	4.19	0.28	4.47	54.75
HCT%	1	360	358	92.46	71.51	5.03	20.39	2.51	7.82
MCV-fl	1	360	358	93.02	92.46	3.91	2.79	3.07	4.75
MCH-Pg	1	360	358	87.71	94.41	6.42	2.51	5.87	2.79
MCHC-g/dl	1	360	358	95.25	89.39	1.68	7.82	3.07	2.79
Plt. x10 <sup>3</sup> /µl	1	360	358	92.18	92.46	5.87	4.75	1.96	2.79
ReticCount%	2	360	335	91.64	84.78	4.48	9.85	3.28	5.37
PS Assessment	3	360	343	Acceptable:98.2%,Warning Signal:1.5%,Unacceptable :0.3%					

**\*Comments:**

- 1). Among Lab (EQA) :** CBC result for **MCHC** unacceptable, may be due to random/human error
- 2). Within Lab (IQA) :** **MCHC & RETIC** unacceptable, please check precision/human error. Remaining 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).

Report authorized by,



Dr. Seema Tyagi (Prof.)

PT Co-ordinator: ISHTM-AIIMS-EQAP

Department of Hematology, AIIMS, New Delhi

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