



**PROFICIENCY TESTING REPORT**  
**ISHIM-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. :** 3818

**Distribution No.:** 152-J      **Month/Year:** March/2021

**Instrument ID:** BC 6200 MINDRAY (TW - 97000584)

**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:** 24-05-2021 [Final].

**CBC and Retic Assessment**

Test Parameters	S.No.	Your Result		Among Lab (Accuracy Testing)			Within Lab (Precision Testing)				
		1	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	7.09	7.09	14.18	13.8	0.0410	0.41	0	0.1	0.0110	-0.84
RBC x10 <sup>6</sup> /µl	1	4.13	4.01	8.14	7.96	0.0110	0.63	0.12	0.04	0.0030	1.80
Hb g/dl	1	11.4	11.2	22.6	21.7	0.0290	1.35	0.2	0.1	0.0080	1.35
HCT%	1	36.3	35.4	71.7	67.5	0.1620	1.09	0.9	0.4	0.0270	1.35
MCV-f	1	88.2	87.8	176	170.1	0.3220	0.80	0.4	0.3	0.0300	0.17
MCH-Pg	1	27.9	27.6	55.5	54.7	0.0880	0.42	0.3	0.3	0.0200	0.00
MCHC-g/dl	1	31.7	31.4	63.1	64.2	0.1490	-0.33	0.3	0.3	0.0220	0.00
Plt. x10 <sup>3</sup> /µl	1	263	223	486	406.5	2.29	1.52	40	7	0.47	4.45
Retic %	2										

**P.S. Assessment**

YOUR REPORT		CONSENSUS REPORT
DLC%	3 Nrbcs=01, Poly=43 L=19, E=03, Mono/Promono=02, B1=03 P.M.=05, Mye=12, Meta=12, Other=BASOPHILS - 01	Poly: 35 - 65, Myelo: 10 - 30, Meta: 5 - 15, Blast/Lympho/Promyelo: 1 - 10, nRBC/Baso/Eos/Mono: 0 - 5
RBC Morphology	3 MICROCYTIC HYPOCHROMIC	Predominantly: Normocytic/Normochromic; Moderate: Microcytosis, Anisocytosis, Hypochromia; Mild: Macrocytosis, Poikilocytosis
Diagnosis	3 CHRONIC MYELOID LEUKEMIA	Chronic Myeloid Leukemia (CML)

**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	249	276	80.43	91.3	5.8	1.45	13.04	6.16
RBC x10 <sup>9</sup> /µl	1	249	276	88.04	90.58	6.16	2.54	5.07	6.16
Hb g/dl	1	249	276	88.77	90.58	5.07	4.35	5.8	4.71
HCT%	1	249	276	90.22	89.13	3.99	3.62	5.07	6.52
MCV-fl	1	249	276	86.59	93.12	9.06	0.72	3.62	5.43
MCH-Pg	1	249	276	86.23	94.57	7.61	1.45	5.43	3.26
MCHC-g/dl	1	249	276	87.68	89.49	6.52	5.43	5.07	4.35
Plt. x10 <sup>3</sup> /µl	1	249	276	86.59	88.04	6.16	5.8	6.52	5.43
ReticCount%	2	249	253	95.65	81.82	2.77	0.79	1.58	17.79
PS Assessment	3	249	257	Acceptable:94.4, Warning Signal:4.0, Unacceptable :1.6					

\*Comments:

- 1). Among Lab (EQA) : Results acceptable.
- 2). Within Lab (IQA) : Difference in the CBC measurement values for *PLT* unacceptable, may be due to random/human error.

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

Report authorized by,



Dr. Seema Tyagi (Prof.)

PT Co-ordinator: ISHTM-AIIMS-EQAP

Department of Hematology, AIIMS, New Delhi

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