



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. : 4462

Distribution No.: 155-L

Month/Year: April/2022

Instrument ID: Mindray SR-68001484

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: 04-07-2022[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 ³ /µl	1	10.09	9.8	19.89	24.12	0.1270	-1.28	0.29	0.2	0.0130	0.39
RBC x10 ⁶ /µl	1	6.24	6.09	12.33	12.05	0.0170	0.61	0.15	0.06	0.0040	1.52
Hb g/dl	1	14.5	14.2	28.7	28.5	0.0290	0.25	0.3	0.1	0.0080	2.70
HCT%	1	54.6	52.8	107.4	95.8	0.2590	1.53	1.8	0.5	0.0360	2.19
MCV-fl	1	87.4	86.8	174.2	159.6	0.3180	1.63	0.6	0.3	0.0210	0.51
MCH-Pg	1	23.4	23.2	46.6	47.1	0.0570	-0.32	0.2	0.2	0.0120	0.00
MCHC-g/dl	1	27	26.5	53.5	58.9	0.1470	-1.30	0.5	0.25	0.0170	0.84
Plt. x10 ³ /µl	1	178	169	347	399	2.71	-0.64	9	9	0.55	0.00
Retic %	2	1.2	1.1	2.3	17.05	0.44	-1.07	0.1	0.7	0.05	-0.48

P.S . Assesment

YOUR REPORT		CONSENSUS REPORT
DLC%	3	Nrbcs=0 , Poly=76 L=0, E=0, Mono/Promono=00 , B1=01 P.M.=02, Mye=11, Meta=09, Other=
RBC Morphology	3	Poly: 50 - 66, Myelo: 9 - 18, Meta: 6 - 13, Lympho: 3-7, nRBC/Promyelo/Blast/Eos/Baso/Mono: 0 - 5
Diagnosis	3	Normocytic Normochromic
		Predominantly: Normocytic/Normochromic; Moderate: Anisocytosis, hypochromia, Microcytosis; Mild: Macrocytosis, Poikilocytosis
		Chronic Myeloid Leukemia (Chronic phase)
		Chronic Myeloid Leukemia (Chronic Phase)

COMBINED DATA VALUES OF TOTAL PARTICIPANTS

Parameters	S.No.	Total participants covered in the current dist. 155--L	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
BC x10 ³ /µl	1	347	334	87.43	89.22	5.69	4.19	6.88	6.59
BC x10 ⁶ /µl	1	347	347	83.29	86.46	7.49	2.02	9.22	11.52
Hb g/dl	1	347	347	87.32	84.73	4.9	6.05	7.78	9.22
HCT%	1	347	333	90.39	88.89	6.61	5.11	3	6
MCV-fl	1	347	333	90.09	86.19	5.41	3.9	4.5	9.91
MCH-Pg	1	347	333	87.99	93.69	7.51	3	4.5	3.31
MCHC-g/dl	1	347	333	91.59	86.79	4.8	4.5	3.61	8.71
Plt. x10 ³ /µl	1	347	333	96.7	86.19	1.8	8.71	1.5	5.1
ReticCount%	2	347	222	91.44	93.24	5.41	2.7	3.15	4.06
PS Assessment	3	347	230	Satisfactory :96.26%, Borderline Sat. :2.88%, Unsatisfactory :0.86%					

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 ($\bar{x}-\bar{y}$) 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.

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-----