



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. : 4588

Distribution No.: 158-L

Month/Year: January/2023

Instrument ID: MINDRAY BC6200

Name & Contact No. of PT Co-ordinator: Dr. Seema Tyagi (Prof.), Hematology, AIIMS, Delhi,
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Date of issue & status of the report: 23-02-2023[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 ³ /µl	1	4.46	4.25	8.71	9.2	0.0280	-0.73	0.21	0.1	0.0060	0.99
RBC x10 ⁶ /µl	1	4.82	4.74	9.56	9.42	0.0130	0.40	0.08	0.05	0.0030	0.67
Hb g/dl	1	13.8	13.7	27.5	26.9	0.0280	0.90	0.1	0.1	0.0080	0.00
HCT%	1	41.6	41.2	82.8	85	0.2400	-0.28	0.4	0.4	0.0240	0.00
MCV-fl	1	86.9	86.4	173.3	183.2	0.4090	-0.74	0.5	0.2	0.0180	1.01
MCH-Pg	1	28.9	28.7	57.6	57.2	0.0640	0.23	0.2	0.2	0.0160	0.00
MCHC-g/dl	1	33.3	33.2	66.5	62.8	0.1560	0.65	0.1	0.3	0.0210	-0.67
Plt. x10 ³ /µl	1	215	208	423	452	1.51	-0.66	7	6	0.37	0.17
Retic %	2	15	14	29	20.5	0.37	0.76	1	0.7	0.05	0.39

P.S . Assesment

YOUR REPORT		CONSENSUS REPORT
DLC%	3	Nrbcs=02 , Poly=36 L=17, E=07, Mono/Promono=05 , B1=01 P.M.=01, Mye=10, Meta=18, Other=
RBC Morphology	3	Poly: 28 - 51, Myelo: 12 - 22, Meta: 10- 20, Lympho: 3- 10, Eosino: 1-4, Promyelo: 2-8, nRBC/Blast/Baso/Mono: 0 - 5
Diagnosis	3	Chronic myeloid leukemia(chronic phase)

COMBINED DATA VALUES OF TOTAL PARTICIPANTS

Test parameters	S.No.	Total participants covered in the current dist. 158--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
WBC x10³/µl	1	338	337	83.09	93.47	4.15	3.56	12.76	2.97
RBC x10⁶/µl	1	338	338	88.17	88.76	6.51	4.44	5.32	6.8
Hb g/dl	1	338	338	86.98	84.32	5.62	6.21	7.4	9.47
HCT%	1	338	336	97.62	90.77	1.79	3.57	0.59	5.66
MCV-fl	1	338	337	99.11	85.76	0.89	3.86	0	10.38
MCH-Pg	1	338	337	91.69	89.91	4.45	5.34	3.86	4.75
MCHC-g/dl	1	338	337	98.52	88.43	0.89	5.64	0.59	5.93
Plt. x10³/µl	1	338	337	95.55	88.72	3.56	5.93	0.89	5.35
ReticCount%	2	338	217	97.7	92.17	1.84	3.23	0.46	4.60
PS Assessment	3	338	212	Satisfactory :93.14%, Borderline Sat. :3.43%, Unsatisfactory :3.43%					

***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 $> \pm 3$: 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 $> \pm 3$ 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.ishtmaimseqap.com.

Note 10: Reports are kept confidential.

Report authorized by,



Dr. Seema Tyagi (Prof.)

PT Co-ordinator: ISHTM-AIIMS-EQAP

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