



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.: 64 **Instrument ID:** Shenzhen Mindray Bio-Medical Electronics co.,Ltd.

Distribution No.: 165-BMonth/Year: September/2024Model Name.: AutoSerial No.: TW-91000342

Hematology Analyzer BC-6200

Name & Contact No. of PT Co-ordinator: Dr. Manoranjan Mahapatra (Prof. & Head), Hematology, AIIMS, Delhi,

Tel: 9013085730 , E-Mail : info@ishtmaiimseqap.com **Date of issue & status of the report:** 18-10-2024 [Final]

CBC and Retic Assessment

				Among Lab (Accuracy Testing)				Within Lab (Precision Testing)				
Test Parameters	S.No.	Your Result 1		Your Results Sum of 2 Value	Consensus result sum of 2 values (Assigned Value)	Uncertainty of Assigned Values		Yours Results Diff. of 2 Values	Consensus Result Diff. of 2 values (Assigned Value)	Uncertainty of Assigned Values	Z Score	
WBC x10³/μl	1	4.74	4.72	9.46	9.66	0.020	-0.33	0.02	0.1	0.005	-0.98	
RBC x10 ⁶ /μl	1	4.39	4.36	8.75	8.4	0.008	1.63	0.03	0.03	0.002	0.00	
Hb g/dl	1	12.9	12.8	25.7	25.2	0.019	1.12	0.1	0.1	0.007	0.00	
НСТ%	1	42.3	41.8	84.1	76.2	0.118	2.22	0.5	0.3	0.020	0.54	
MCV-fl	1	96.3	95.9	192.2	182	0.239	1.35	0.4	0.3	0.020	0.27	
МСН-Рд	1	29.3	29.3	58.6	60	0.047	-1.00	0	0.2	0.012	-0.90	
MCHC-g/dl	1	30.5	30.4	60.9	66.3	0.103	-1.66	0.1	0.3	0.020	-0.67	
Plt. x10³/μl	1	158	153	311	342	1.301	-0.80	5	5	0.278	0.00	
Retic %	2	1.2	0.8	2	7.5	0.188	-0.73	0.4	0.25	0.020	0.52	

P.S. Assesment

		YOUR REPORT	CONSENSUS REPORT				
DLC%	3	Nrbcs=5 , Poly=7 L=78, E=12, Mono/Promono=3 , B1=0 P.M.=0, Mye=0, Meta=0, Other=	Lymp: 70 - 79, Poly: 14 - 21, Eosino: 1 - 2, Mono: 2 - 5, nRBC/blast/Promyelo/Myelo/Meta: 0-5				
RBC Morphology	3		RBCs are normocytic and normochromic. *Smudge cells* are present, indicating a possible chronic lymphoproliferative disorder.				
Diagnosis	3	CHRONIC LYMPHOCYTIC LEUKEMIA	Chronic Lymphoproliferative Disorder (CLPD)				

COMBINED DATA VALUES OF TOTAL PARTICIPANTS

Test never eters	S.No.	Total participants covered in the current dist. 165B	Total No. responded	% of Labs with Z Score 0-2		% of Labs with Z Score 2-3		% of Labs with Z Score >3	
Test parameters				Among labs	Within lab	Among labs	Within lab	Among labs	Within lab
WBC x10³/μl	1	382	379	85 .49	93.67	2.11	4.49	12.40	1.84
RBC x10 ⁶ /μl	1	382	382	89.01	87.17	3.4	6.28	7.59	6.55
Hb g/dl	1	382	382	80.89	90.58	8.9	4.45	10.21	4.97
HCT%	1	382	3 <mark>79</mark>	91.56	88.13	5.28	7.12	3.16	4.75
MCV-fl	1	382	377	95.76	85.15	3.45	7.96	0.79	6.89
MCH-Pg	1	382	378	87.83	<mark>76.46</mark>	6.08	18.52	6.09	5.02
MCHC-g/dl	1	382	378	94.97	89.95	2.38	4.76	2.65	5.29
Plt. x10³/μl	1	382	380	92.63	93.95	5.26	3.95	2.11	2.1
ReticCount%	2	382	347	96.54	81.84	2.59	1.15	0.87	17.01
PS Assessment	3	382	346	Satisfactory:93.99%, Borderline Sat.:3.14%, Unsatisfactory:2.87%					

*Comments:

Among Lab (EQA): Results acceptable.
 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.ishtmaiimseqap.com.

Note 10: Reports are kept confidential.

Report authorized by,

Dr. Manoranjan Mahapatra (Prof. & Head)

PT Co-ordinator: ISHTM-AIIMS-EQAP

Department of Hematology, AIIMS, New Delhi

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