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. : 3574 **Distribution No.:** 164-J **Month/Year:** June/2024

Instrument ID: MINDRAY **Model Name.:** BC-5000 **Serial No.:** SS-99006373

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: 28-08-2024[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	5.46	5.37	10.83	10.9	0.034	**-0.09**	0.09	0.1	0.008	**-0.08**
RBC x10^6/µl	1	4.7	4.64	9.34	8.97	0.012	**1.35**	0.06	0.04	0.003	**0.45**
Hb g/dl	1	13.3	13.2	26.5	26.2	0.027	**0.51**	0.1	0.1	0.008	**0.00**
HCT%	1	40.8	40.1	80.9	80	0.188	**0.19**	0.7	0.4	0.027	**0.67**
MCV-fl	1	86.8	86.4	173.2	178.7	0.278	**-0.75**	0.4	0.3	0.023	**0.27**
MCH-Pg	1	28.4	28.3	56.7	58.3	0.072	**-0.86**	0.1	0.2	0.015	**-0.45**
MCHC-g/dl	1	32.8	32.6	65.4	65	0.148	**0.11**	0.2	0.2	0.018	**0.00**
Plt. x10^3/µl	1	140	135	275	259	1.326	**0.49**	5	5	0.297	**0.00**
Retic %	2										

P.S . Assesment

		YOUR REPORT	CONSENSUS REPORT
DLC%	3	Nrbcs=03 , Poly=38 L=04, E=01, Mono/Promono=0 , B1=7 P.M.=8, Mye=23, Meta=15, Other=PLATELETS ARE ADEQUATE. NO HEMOPARASITES SEEN.	Poly: 23–43, Myelo: 17-35, Meta: 12–22, Promyelo: 2-10, Lympho: 3–6, Blast: 2-5, Eosino: 1-3, Mono: 1-2, Baso: 0-5
RBC Morphology	3	NORMOCYTIC NORMOCHROMIC CELLS.	Predominantly: Normocytic/Normochromic; Moderate: Anisocytosis, Mild: Polychromatophils (+), Macrocytic, Tear drop cells
Diagnosis	3	CHRONIC MYELOID LEUKEMIA, CHRONIC PHASE.	Myeloproliferative Neoplasm (CML-CP)

COMBINED DATA VALUES OF TOTAL PARTICIPANTS

Test parameters	S.No.	Total participants covered in the current dist. 164--J	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 $x10^3$/µl	1	312	311	81.03	85.53	4.82	5.14	14.15	9.33
RBC $x10^6$/µl	1	312	312	83.65	90.06	9.62	4.49	6.73	5.45
Hb g/dl	1	312	312	80.45	88.46	8.65	5.45	10.9	6.09
HCT%	1	312	311	89.71	89.71	8.04	5.79	2.25	4.5
MCV-fl	1	312	311	88.1	92.93	8.04	2.89	3.86	4.18
MCH-Pg	1	312	311	89.71	94.53	5.14	2.89	5.15	2.58
MCHC-g/dl	1	312	311	90.68	85.85	5.79	4.5	3.53	9.65
Plt. $x10^3$/µl	1	312	310	86.13	94.52	9.68	2.26	4.19	3.22
ReticCount%	2	312	266	93.23	79.7	4.89	15.04	1.88	5.26
PS Assessment	3	312	273	Satisfactory :94.53%, Borderline Sat. :1.93%, Unsatisfactory :3.54%					

*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,

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