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

PC-1002

Duration of stability testing - minimum upto 8 days at ambient temp. after dispatch of specimens

EQAP CODE No. : 6522 **Distribution No.:** 163-P **Month/Year:** May/2024

Instrument ID: MINDRAY BC **Model Name.:** BC 5150 **Serial No.:** 096003658

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: 30-06-2024[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 x10³/µl	1	2.8	2.67	5.47	5.85	0.046	0.59	0.13	0.1	0.008	0.27
RBC x10⁶/µl	1	4.05	4.01	8.06	7.88	0.010	0.71	0.04	0.04	0.003	0.00
Hb g/dl	1	12.3	12.2	24.5	24.2	0.028	0.45	0.1	0.1	0.008	0.00
HCT%	1	37.5	37	74.5	72.6	0.134	0.53	0.5	0.4	0.025	0.27
MCV-fl	1	92.5	92.3	184.8	184	0.242	0.13	0.2	0.3	0.023	-0.22
MCH-Pg	1	30.7	30.1	60.8	61.3	0.081	-0.24	0.6	0.2	0.018	1.35
MCHC-g/dl	1	33.3	32.5	65.8	66.5	0.124	-0.23	0.8	0.3	0.021	1.35
Plt. x10³/µl	1	222	222	444	427	1.296	1.12	0	4	0.274	-0.90
Retic %	2	8.2	8	16.2	15.5	0.216	0.12	0.2	0.5	0.036	-0.51

P.S . Assesment

		YOUR REPORT	CONSENSUS REPORT
DLC%	3	Nrbcs= , Poly=8 L=10, E=2, Mono/Promono=4 , B1=75 P.M.=, Mye=, Meta=, Other=	Blast: 25-88.75, Poly: 2-6.5, Lympho: 2-5, Promyelo: 0-36, Myelo: 0-7, nRBC/Mono/Eos/Baso/Meta: 0-5
RBC Morphology	3	NORMOCYTIC,NORMOCHROMIC	Predominantly: Normocytic/Normochromic, Mild: Anisocytosis
Diagnosis	3	Acute Leukemia	Acute Leukemia(APML)

COMBINED DATA VALUES OF TOTAL PARTICIPANTS

Test parameters	S.No.	Total participants covered in the current dist. 163--P	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 $x10^3/\mu l$	1	308	306	76.47	83.66	3.27	3.27	20.26	13.07
RBC $x10^6/\mu l$	1	308	308	87.99	90.26	5.52	2.92	6.49	6.82
Hb g/dl	1	308	308	88.64	87.01	4.87	4.22	6.49	8.77
HCT%	1	308	306	91.83	92.16	4.9	2.94	3.27	4.9
MCV-fl	1	308	306	89.54	93.46	5.56	3.27	4.9	3.27
MCH-Pg	1	308	306	88.56	92.16	7.19	4.58	4.25	3.26
MCHC-g/dl	1	308	306	89.22	90.2	7.84	4.9	2.94	4.9
Plt. $x10^3/\mu l$	1	308	306	90.85	90.52	5.23	4.25	3.92	5.23
ReticCount%	2	308	265	94.34	84.15	4.53	12.08	1.13	3.77
PS Assessment	3	308	258	Satisfactory :96.44%, Borderline Sat. :0.32%, Unsatisfactory :3.24%					

*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

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