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. : 5975 **Distribution No.:** 163-O **Month/Year:** April/2024

Instrument ID: ERBA **Model Name.:** H560 **Serial No.:** K1104B2141046

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: 05-06-2024[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 x10^3/µl	1	5	5	10	9.93	0.029	**0.10**	0	0.1	0.007	**-0.90**
RBC x10^6/µl	1	5.13	5.11	10.24	10.24	0.014	**0.00**	0.02	0.05	0.003	**-0.51**
Hb g/dl	1	15	14.9	29.9	29.8	0.035	**0.11**	0.1	0.1	0.009	**0.00**
HCT%	1	43.4	43.2	86.6	90.6	0.204	**-0.72**	0.2	0.4	0.028	**-0.37**
MCV-fl	1	85	85	170	177.3	0.277	**-0.98**	0	0.3	0.020	**-1.01**
MCH-Pg	1	29.3	29.1	58.4	58.3	0.080	**0.05**	0.2	0.2	0.016	**0.00**
MCHC-g/dl	1	34.7	34.4	69.1	65.9	0.149	**0.81**	0.3	0.3	0.020	**0.00**
Plt. x10^3/µl	1	171	167	338	411	2.173	**-1.31**	4	6	0.417	**-0.30**
Retic %	2	8.2	8	16.2	14.45	0.187	**0.32**	0.2	0.5	0.035	**-0.51**

P.S . Assesment

		YOUR REPORT	CONSENSUS REPORT
DLC%	3	Nrbcs=0 , Poly=07 L=19, E=02, Mono/Promono=12 , B1=45 P.M.=10, Mye=05, Meta=0, Other=0	Blast: 20-85, Poly: 2-8, Lympho: 2-7, Promyelo: 0-22, Myelo: 0-8, Meta: 0-7, nRBC/Mono/Eos/Baso/: 0-5
RBC Morphology	3	NC/NC+	Predominantly: Normocytic/Normochromic, Mild: Anisocytosis
Diagnosis	3	ACUTE LEUKAMIA	Acute Promyelocytic Leukemia(APML)

COMBINED DATA VALUES OF TOTAL PARTICIPANTS

Test parameters	S.No.	Total participants covered in the current dist. 163--O	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	324	324	84.57	83.95	3.4	6.48	12.03	9.57
RBC $x10^6/\mu l$	1	324	324	87.35	88.58	5.56	4.94	7.09	6.48
Hb g/dl	1	324	324	88.58	91.98	6.79	3.09	4.63	4.93
HCT%	1	324	324	91.67	88.89	3.7	4.63	4.63	6.48
MCV-fl	1	324	324	91.67	85.19	4.01	6.79	4.32	8.02
MCH-Pg	1	324	324	87.35	91.98	7.72	1.54	4.93	6.48
MCHC-g/dl	1	324	324	89.81	87.04	5.56	4.63	4.63	8.33
Plt. $x10^3/\mu l$	1	324	324	88.27	89.81	5.86	4.63	5.87	5.56
ReticCount%	2	324	256	93.75	83.2	4.3	13.28	1.95	3.52
PS Assessment	3	324	254	Satisfactory :93.83%, Borderline Sat. :2.16%, Unsatisfactory :4.01%					

*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. Manoranjan Mahapatra (Prof. & Head)
PT Co-ordinator: ISHTM-AIIMS-EQAP
Department of Hematology, AIIMS, New Delhi

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