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. : 4202 **Distribution No.:** 163-K **Month/Year:** April/2024

Instrument ID: MEDONIC **Model Name.:** M20 **Serial No.:** 47101

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 x10³/µl	1	5.04	5	10.04	9.92	0.029	**0.16**	0.04	0.1	0.007	**-0.54**
RBC x10⁶/µl	1	5.19	5.18	10.37	10.24	0.014	**0.35**	0.01	0.05	0.003	**-0.77**
Hb g/dl	1	15.1	15	30.1	29.8	0.035	**0.34**	0.1	0.1	0.009	**0.00**
HCT%	1	45.2	44.9	90.1	90.6	0.204	**-0.09**	0.3	0.4	0.028	**-0.18**
MCV-fl	1	87.3	86.5	173.8	177.3	0.277	**-0.47**	0.8	0.3	0.020	**1.69**
MCH-Pg	1	29.2	28.9	58.1	58.3	0.080	**-0.10**	0.3	0.2	0.016	**0.34**
MCHC-g/dl	1	33.4	33.4	66.8	65.85	0.149	**0.25**	0	0.3	0.020	**-1.01**
Plt. x10³/µl	1	248	230	478	411	2.173	**1.21**	18	6	0.417	**1.75**
Retic %	2	8.8	8.6	17.4	14.45	0.187	**0.54**	0.2	0.5	0.035	**-0.51**

P.S . Assesment

		YOUR REPORT	CONSENSUS REPORT
DLC%	3	Nrbcs= , Poly=04 L=04, E=, Mono/Promono= , B1=58 P.M.=34, Mye=8, Meta=, Other=	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	NCNC++,ANISO+	Predominantly: Normocytic/Normochromic, Mild: Anisocytosis
Diagnosis	3	ACUTE LEUKEMIA PROMYELOCYTE	Acute Promyelocytic Leukemia(APML)

COMBINED DATA VALUES OF TOTAL PARTICIPANTS

Test parameters	S.No.	Total participants covered in the current dist. 163--K	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	88.27	5.56	5.56	7.09	6.17
Hb g/dl	1	324	324	89.2	91.67	6.79	3.09	4.01	5.24
HCT%	1	324	324	91.98	88.27	3.7	5.25	4.32	6.48
MCV-fl	1	324	324	91.98	84.88	4.01	7.41	4.01	7.71
MCH-Pg	1	324	324	87.35	91.67	7.72	2.16	4.93	6.17
MCHC-g/dl	1	324	324	90.43	87.35	5.56	4.63	4.01	8.02
Plt. $x10^3/\mu l$	1	324	324	88.27	89.51	5.86	5.25	5.87	5.24
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

----------End Of Report----------