



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. : 5385

Distribution No.: 163-N

Month/Year: April/2024

Instrument ID: MEDONIC

Model Name.: M series M 32 B

Serial No.: 1420021

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: 04-07-2024[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	7.9	7.8	15.7	13.1	0.075	1.40	0.1	0.1	0.008	0.00
RBC x10 ⁶ /µl	1	4.72	4.7	9.42	9.74	0.012	-1.14	0.02	0.04	0.003	-0.39
Hb g/dl	1	12.2	12.1	24.3	23.7	0.022	1.01	0.1	0.1	0.008	0.00
HCT%	1	36.7	36.4	73.1	78.7	0.213	-1.07	0.3	0.4	0.026	-0.27
MCV-fl	1	77.6	77.3	154.9	161.8	0.401	-0.58	0.3	0.3	0.021	0.00
MCH-Pg	1	25.9	25.7	51.6	48.8	0.058	1.99	0.2	0.2	0.013	0.00
MCHC-g/dl	1	33.5	33.1	66.6	60.1	0.174	1.23	0.4	0.25	0.018	0.51
Plt. x10 ³ /µl	1	264	257	521	473	4.433	0.33	7	6	0.394	0.15
Retic %	2	8.9	8.5	17.4	14.8	0.200	0.44	0.4	0.5	0.032	-0.17

P.S . Assesment

YOUR REPORT			CONSENSUS REPORT		
DLC%	3	Nrbcs=2 , Poly=67 L=23, E=02, Mono/Promono=08 , B1= P.M.=, Mye=, Meta=, Other=	Poly: 70-79 , Lympho: 15-21, Mono: 2-6, Eosino: 1-3, blast/Promyelo/Myelo/Meta: 0		
RBC Morphology	3	Predominantly normocytic normochromic.Few microcytic hypochromic cells observed.	Predominantly: Normocytic/Normochromic; Moderate: Sickle cells, Poikilocytosis, Target cells, Mild: Anisocytosis, Polychromasia, tear drop cells		
Diagnosis	3		Sickle Cell Disease		

COMBINED DATA VALUES OF TOTAL PARTICIPANTS

Test parameters	S.No.	Total participants covered in the current dist. 163--N	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 x10³/µl	1	316	316	81.33	79.75	6.01	7.91	12.66	12.34
RBC x10⁶/µl	1	316	316	87.03	91.46	7.91	4.11	5.06	4.43
Hb g/dl	1	316	316	87.03	89.87	7.91	3.16	5.06	6.97
HCT%	1	316	315	86.98	90.16	6.98	3.49	6.04	6.35
MCV-fl	1	316	316	89.87	90.19	5.7	2.53	4.43	7.28
MCH-Pg	1	316	316	87.03	92.72	7.59	3.48	5.38	3.8
MCHC-g/dl	1	316	316	93.99	87.34	4.11	2.85	1.9	9.81
Plt. x10³/µl	1	316	316	97.15	88.61	2.22	7.28	0.63	4.11
ReticCount%	2	316	239	94.56	90.38	4.18	5.02	1.26	4.60
PS Assessment	3	316	221	Satisfactory :80.33%, Borderline Sat. :14.60%, Unsatisfactory :5.07%					

***Comments:**

1). Among Lab (EQA) : PS Diagnosis not reported, 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 $> \pm 3$: 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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