



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.: 1348

Distribution No.: 151-D

Month/Year: August/2020

Instrument ID: MEDONIC CELL COUNTER M-16GP

Name & Contact No. of PT Co-ordinator: Dr. Seema Tyagi (Prof.), Hematology, AIIMS, Delhi,

 $Tel: 9013085730 \; \text{, E-Mail: accuracy2000@gmail.com}$

Date of issue & status of the report: 27-11-2020[Final].

CBC and Retic Assessment

Test Parameters	S.No.			Among Lab (Accuracy Testing)				Within Lab (Precision Testing)				
		Your Result 1		Your Results Sum of 2 Value		Uncertainty of Assigned Values	Z Score	Yours Results Diff. of 2 Values		Uncertainty of Assigned Values	Z Score	
WBC x10³/μl	1	4.4	4.1	8.5	9.8	0.0460	-0.91	0.3	0.1	0.0060	1.93	
RBC x10 ⁶ /μl	1	3.31	3.3	6.61	6.4	0.0060	1.18	0.01	0.03	0.0010	-0.54	
Hb g/dl	1	10.4	10.4	20.8	23.4	0.0210	-4.38	0	0.1	0.0070	-1.28	
НСТ%	1	38.7	38.2	76.9	72.05	0.1860	0.79	0.5	0.3	0.0200	0.54	
MCV-fl	1	116.9	115.6	232.5	223.5	0.4950	0.51	1.3	0.3	0.0230	2.25	
МСН-Рд	1	31.6	31.4	63	73.2	0.0760	-4.91	0.2	0.3	0.0200	-0.34	
MCHC-g/dl	1	27.4	26.8	54.2	65.3	0.1640	-1.91 ~	0.6	0.3	0.0200	1.01	
Plt. x10³/μl	1	363	198	561	512	1.38	1.28	165	6	0.32	27.68	
Retic %	2											

P.S. Assesment

0		YOUR REPORT	CONSENSUS REPORT				
DLC%	3	Nrbcs=6-8, Poly=14-15 L=4-5, E=0-2, Mono/Promono=0-2, B1=10-12 P.M.=22-24, Mye=18-20, Meta=20-22, Other=	Poly: 25-50, Lymph; 2-7, nRBC/Mono/Eo/Blast/Pro: 0-5, Myelo: 20-35, Meta: 15-25, Baso: 0-3				
RBC Morphology	3	NORMOCYTIC NORMOCHROMIC, MICROCYTES, MACROCYTES	Predominantly: Normocytic Normochromic. Moderate: Anisocytosis. Mild: Microcytic				
Diamosia	·	ADDMI	Chania Muslaid Laukamia (Channia Phasa), CMI CD				

COMBINED DATA VALUES OF TOTAL PARTICIPANTS

Test parameters	S.No.	Total participants covered in the current dist.	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	450	363	88.43	86.23	4.68			
RBC x10 ⁶ /μl	1	450	363	88.43			5.79	6.61	7.71
Hb g/dl	1	450	363		88.98	4.96	6.06	6.34	4.68
HCT%	1	450		85.12	90.91	6.34	4.41	8.54	4.68
MCV-fl	1		363	94.77	92.29	3.03	2.75	1.93	4.68
	- 100	450	363	97.8	92.29	0.55	3.03	1.1	4.13
MCH-Pg	1	450	363	88.98	90.91	5.51	5.23	4.96	
MCHC-g/dl	1	450	363	96.97	87.05	1.38			3.03
Plt. $x10^3/\mu l$	1	450	363	90.08			6.06	1.38	6.06
ReticCount%	2	450			90.63	5.23	5.51	4.41	3.58
PS Assessment	3		322	93.17	83.85	4.35	1.55	2.8	16.15
Commenter		450	352	Acceptable:75.4%, Warning Signal:24.6%, Unacceptable:0%					

*Comments:

- 1). Among Lab (EQA): CBC result for HB & MCH unacceptable, please check calibration/human error.Remaining results acceptable.,Retic Results not reported, PS partially correct
- $2). \ Within \ Lab \ (IQA): Difference \ in \ the \ CBC \ measurement \ values \ for \ PLT \ unacceptable, \ may \ be \ due \ to \ random/human \ error.$

Note-1: EQA (External Quality Assurance): Your Performance among various of participating labs in PT, to determine

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 $IQR = 0.7413 \times IQR$

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 > ± 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 $(\overline{x}-\overline{y})$ 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.

Report authorized by,

the

Dr. Seema Tyagi (Prof.)

PT Co-ordinator: ISHTM-AIIMS-EQAP

Department of Hematology, AIIMS, New Delhi