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. : 2459 **Distribution No.:** 160-E **Month/Year:** May/2023

Instrument ID: Medonic 001

Name & Contact No. of PT Co-ordinator: Dr. Seema Tyagi (Prof.), Hematology, AIIMS, Delhi,
Tel: 9013085730 , E-Mail : accuracy2000@gmail.com

Date of issue & status of the report: 26-07-2023[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	3.6	3.6	7.2	7.35	0.070	**-0.08**	0	0.1	0.006	**-1.04**
RBC x10^6/µl	1	4.07	4.02	8.09	8.09	0.009	**0.00**	0.05	0.04	0.002	**0.27**
Hb g/dl	1	11.4	11.4	22.8	22.9	0.027	**-0.13**	0	0.1	0.007	**-1.35**
HCT%	1	36.5	36.2	72.7	73.8	0.184	**-0.21**	0.3	0.4	0.024	**-0.34**
MCV-fl	1	90	89.8	179.8	182.45	0.353	**-0.26**	0.2	0.3	0.022	**-0.27**
MCH-Pg	1	28.4	28	56.4	56.4	0.075	**0.00**	0.4	0.2	0.013	**0.90**
MCHC-g/dl	1	31.6	31.2	62.8	61.45	0.149	**0.35**	0.4	0.3	0.016	**0.34**
Plt. x10^3/µl	1	223	220	443	422	1.693	**0.44**	3	6	0.326	**-0.58**
Retic %	2	3	2.8	5.8	16.9	0.408	**-0.84**	0.2	0.5	0.044	**-0.51**

P.S . Assesment

		YOUR REPORT	CONSENSUS REPORT
DLC%	3	Nrbcs= , Poly=2 L=2, E=1, Mono/Promono= , B1=90 P.M.=4, Mye=1, Meta=2, Other=	Blast: 75-94, Lympho: 4-12, Poly: 2-5, nRBC/ Mono/Eos/Baso/Myelo/Meta/ Promyelo: 0-5
RBC Morphology	3	Microcytic hypochromic anisopoikilocytosis	Predominantly: Normocytic/ Normochromic, Moderate: Anisocytosis, Microcytic, poikilocytosis
Diagnosis	3	AML	Acute Leukemia (AL)

COMBINED DATA VALUES OF TOTAL PARTICIPANTS

Test parameters	S.No.	Total participants covered in the current dist. 160--E	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	314	313	90.1	92.33	4.47	1.6	5.43	6.07
RBC $x10^6/\mu l$	1	314	314	85.99	90.76	4.46	3.18	9.55	6.06
Hb g/dl	1	314	314	87.9	92.04	4.46	2.87	7.64	5.09
HCT%	1	314	313	92.01	91.37	4.15	3.51	3.84	5.12
MCV-fl	1	314	312	94.87	93.59	3.21	1.28	1.92	5.13
MCH-Pg	1	314	312	88.46	92.31	4.81	2.88	6.73	4.81
MCHC-g/dl	1	314	312	91.35	87.82	4.49	4.49	4.16	7.69
Plt. $x10^3/\mu l$	1	314	313	94.89	92.97	3.19	4.15	1.92	2.88
ReticCount%	2	314	259	91.12	81.85	5.02	11.2	3.86	6.95
PS Assessment	3	314	281	Satisfactory :97.14%, Borderline Sat. :1.91%, Unsatisfactory :0.95%					

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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