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. : 774   **Distribution No.:** 158-B   **Month/Year:** October/2022
Instrument ID: BC-6200
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: 01-01-2023[Final].

CBC and Retic Assessment

Test Parameters	S.No.	Your Result 1	Your Result 2	Among Lab (Accuracy Testing)				Within Lab (Precision Testing)			
				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	4.66	4.57	9.23	10	0.0290	-1.00	0.09	0.1	0.0050	-0.11
RBC x10⁶/µl	1	4.47	4.43	8.9	8.86	0.0060	0.22	0.04	0.04	0.0020	0.00
Hb g/dl	1	13.9	13.8	27.7	26.4	0.0190	2.19	0.1	0.1	0.0070	0.00
HCT%	1	45.2	45.1	90.3	82.6	0.1590	1.47	0.1	0.4	0.0230	-0.81
MCV-fl	1	102.1	101.1	203.2	186.5	0.3470	1.47	1	0.3	0.0230	1.57
MCH-Pg	1	31.3	30.9	62.2	59.7	0.0480	1.71	0.4	0.2	0.0120	0.90
MCHC-g/dl	1	30.6	30.6	61.2	63.8	0.1370	-0.58	0	0.3	0.0180	-1.01
Plt. x10³/µl	1	239	218	457	414	1.59	0.89	21	7	0.40	1.89
Retic %	2	5	4.5	9.5	10.5	0.14	-0.25	0.5	0.3	0.02	0.86

P.S . Assesment

		YOUR REPORT	CONSENSUS REPORT
DLC%	3	Nrbcs=0 , Poly=4 L=8, E=2, Mono/Promono=1 , B1=63 P.M.=10, Mye=4, Meta=8, Other=few smudge cell seen	Blast: 76-92, Lympho: 4-16, Poly: 1-3, nRBC/Eos/Baso/Mono /Myelo/Meta/ Promyelo: 0-5
RBC Morphology	3	predominantly Normocytic Normochromic cells, few normocytic hypochromic cells and macrocytes	Predominantly: Normocytic/ Normochromic, Moderate: Anisocytosis, Microcytic
Diagnosis	3	ACUTE LEUKEMIA	Acute Leukemia (AL)

COMBINED DATA VALUES OF TOTAL PARTICIPANTS

Test parameters	S.No.	Total participants covered in the current dist. 158--B	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	358	357	87.11	92.72	5.32	3.36	7.57	3.92
RBC x10⁶/µl	1	358	358	90.5	90.78	4.19	4.47	5.31	4.75
Hb g/dl	1	358	358	89.66	91.06	5.87	4.19	4.47	4.75
HCT%	1	358	356	97.47	92.13	1.97	4.21	0.56	3.66
MCV-fl	1	358	355	98.03	92.96	1.69	2.82	0.28	4.22
MCH-Pg	1	358	355	92.68	75.21	3.94	17.18	3.38	7.61
MCHC-g/dl	1	358	354	97.18	88.14	1.98	3.67	0.84	8.19
Plt. x10³/µl	1	358	356	91.57	91.29	5.9	4.21	2.53	4.5
ReticCount%	2	358	337	90.5	83.38	8.01	0.59	1.49	16.03
PS Assessment	3	358	340	Satisfactory :97.5%, Borderline Sat. :1.11%, Unsatisfactory :1.39%					

*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

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