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. : 1635 **Distribution No.:** 156-C **Month/Year:** May/2022

Instrument ID: Yumizen H550 110yaxh03540

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: 12-07-2022[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	3.93	3.19	7.12	41.39	0.2760	-1.59	0.74	0.21	0.0140	1.79
RBC x10^6/µl	1	4.37	4.35	8.72	8.63	0.0080	0.42	0.02	0.03	0.0020	-0.27
Hb g/dl	1	12.8	12.7	25.5	26.45	0.0330	-1.17	0.1	0.1	0.0080	0.00
HCT%	1	42.8	42.1	84.9	83.65	0.2070	0.20	0.7	0.4	0.0240	0.81
MCV-fl	1	98.5	96.4	194.9	194.15	0.4040	0.06	2.1	0.3	0.0250	3.04
MCH-Pg	1	29.4	29.1	58.5	61.15	0.0840	-1.19	0.3	0.2	0.0160	0.45
MCHC-g/dl	1	30.2	29.8	60	62.6	0.1590	-0.57	0.4	0.3	0.0170	0.34
Plt. x10^3/µl	1	185	183	368	345.5	3.20	0.22	2	5	0.31	-0.58
Retic %	2	10.5	10	20.5	7.9	0.12	3.70	0.5	0.3	0.02	0.90

P.S . Assesment

		YOUR REPORT	CONSENSUS REPORT
DLC%	3	Nrbcs=02 , Poly=17 L=20, E=1, Mono/Promono=5 , B1=56 P.M.=, Mye=, Meta=, Other=	Blast: 49-70, Lympho: 12-27 ,Poly: 9-17,/mono:1-5 nRBC/Eosino/Myelo/Meta/promyelo: 0-2
RBC Morphology	3	Normocytic, normochromic, mild anisocytosis	Predominantly: Normocytic/ Normochromic, Moderate: Anisocytosis, Microcytic , macrocytes, Tear drop cells
Diagnosis	3	Acute Leukemia	Acute Leukemia (AL)

COMBINED DATA VALUES OF TOTAL PARTICIPANTS

Test parameters	S.No.	Total participants covered in the current dist. 156--C	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/µl	1	347	345	99.13	89.86	0.29	3.48	0.58	6.66
RBC x10^6/µl	1	347	347	91.07	90.78	4.61	3.75	4.32	5.47
Hb g/dl	1	347	347	85.88	87.9	6.63	4.61	7.49	7.49
HCT%	1	347	346	88.44	89.02	4.91	3.76	6.65	7.22
MCV-fl	1	347	346	88.44	91.91	3.76	4.62	7.8	3.47
MCH-Pg	1	347	346	87.28	87.57	5.78	6.94	6.94	5.49
MCHC-g/dl	1	347	346	91.62	86.42	4.91	4.91	3.47	8.67
Plt. x10^3/µl	1	347	346	95.38	91.91	3.47	3.47	1.15	4.62
ReticCount%	2	347	329	90.88	82.07	7.29	12.77	1.83	5.16
PS Assessment	3	347	326	Satisfactory :94.27%, Borderline Sat. :4.59%, Unsatisfactory :1.14%					

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.)
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