

PROFICIENCY TESTING REPORT

ISHTM-AUMS EXTERNAL QUALITY ASSURANCE PROGRAMME NABL accredited program as per ISO/IEC 17043:2010 standard Organized By Department of Hematology, AIIMS, New Delhi-110029



PARTICIPATION CERTIFICATE

[Certificate No. EAQP/5023/2022/30]

Date 30.12.2022

This is to certify that" REGIONAL AYURVEDA RESEARCH INSTITUTE, NAGPUR, Nagpur, Maharashtra, 440009 "has participated in the "ISHTM-AIIMS External Quality Assurance Program" for the period "January 2022 to December 2022".

Report authorized by,

Dr. Seema Tyagi (Prof.)

PT Co-ordinator: ISHTM-AIIMS-EQAP

Department of Hematology, AIIMS, New Delhi





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Duration of stability testing - minimum upto 8 days at ambient temp. after dispatch of specimens

EQAP CODE No.: 5023

Distribution No.: 156-M

Month/Year: July/2022

Instrument ID: SYSMAX XP -100 (A1143)

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: 28-09-2022[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	Consensus result sum of 2 values (Assigned Value)	Uncertainty of Assigned Values		Results	Consensus Result Diff. of 2 values (Assigned Value)	Uncertainty of Assigned Values		
WBC x10³/μl	1	2.8	2.8	5.6	6.47	0.0430	-0.98	0	0.1	0.0110	-0.84	
RBC x10 ⁶ /μl	1	3.93	3.83	7.76	7.95	0.0160	-0.64	0.1	0.06	0.0050	0.60	
Hb g/dl	1	13.5	13.1	26.6	27	0.0470	-0.54	0.4	0.17	0.0160	1.06	
НСТ%	1	39.1	38.1	77.2	83.05	0.3440	-0.81	1	0.6	0.0610	0.49	
MCV-fl	1	99.5	99.5	199	209.8	0.6860	-0.74	0	0.5	0.0540	-0.84	
МСН-Рд	1	35.2	33.3	68.5	67.9	0.1360	0.23	1.9	0.3	0.0360	3.60	
MCHC-g/dl	1	35.4	33.5	68.9	64.05	0.2860	0.83	1.9	0.4	0.0380	2.89	
Plt. x10³/μl	1	151	150	301	282	1.67	0.57	1	6	0.45	-0.96	
Retic %	2	3	2	5	3	0.11	0.84	1	0.2	0.02	2.70	

P.S. Assesment

		YOUR REPORT	CONSENSUS REPORT					
DLC%	3	Nrbcs=3.0, Poly=03 L=94, E=00, Mono/Promono=03, B1=0 P.M.=0, Mye=0, Meta=00, Other=00	Blast: 32-75, Lympho: 11-39, Poly: 4-9, nRBC/Eos/Baso/Mono /Myelo/Meta/ Promyelo: 0-5					
RBC Morphology	3 Normocytic Normochromic		Predominantly: Normocytic/ Normochromic, Moderate: Anisocytosi Microcytic					
Diagnosis	3	Normocytic Normochromic Anaemia with Lymphocytosis with Thrombocytopenia	Acute Leukemia (AL)					



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	
1000 parameters	5.140.			Among labs	Within lab	Among labs	Within lab	Among labs	Within lab
WBC x10³/μl	1	171	170	83.53	81.18	5.29	6.47	11.18	12.35
RBC x10 ⁶ /µl	1	171	171	83.63	85.38	8.19	5.26	8.18	9.36
Hb g/dl	1	171	171	77.19	91.81	8.77	1.75	14.04	6.44
НСТ%	1	171	170	91.18	88.82	6.47	4.12	2.35	7.06
MCV-fl	1	171	170	93.53	85.88	5.29	2.35	1.18	11.77
MCH-Pg	1	171	170	85.88	85.29	6.47	5.88	7.65	8.83
MCHC-g/dl	1	171	170	93.53	88.24	4.12	2.94	2.35	8.82
Plt. $x10^3/\mu l$	1	171	170	91.76	86.47	6.47	7.06	1.77	6.47
ReticCount%	2	171	153	89.54	86.93	6.54	9.15	3.92	3.92
PS Assessment	3	171	149	Satisfactory	:78.95%, Bo	orderline Sat			

*Comments:

- 1). Among Lab (EQA): PS Diagnosis partially correct, remaining results acceptable
- 2). Within Lab (IQA): Difference in the CBC measurement values for MCH 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 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 $IQR = 0.7413 \times IQR$

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,

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Dr. Seema Tyagi (Prof.)

PT Co-ordinator: ISHTM-AIIMS-EQAP

Department of Hematology, AIIMS, New Delhi



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