



PROFICIENCY TESTING REPORT

ISHTM-ALIMS 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.: 4678

Distribution No.: 159-L

Month/Year: April/2023

Instrument ID: 11621

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

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Date of issue & status of the report: 13-06-2023[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		Yours Results Diff. of 2 Values	Consensus Result Diff. of 2 values (Assigned Value)	Uncertainty	Z Score	
WBC x10³/µl	1	3.79	3.6	7.39	7.96	0.031	-0.70	0.19	0.1	0.005	1.01	
RBC x10 ⁶ /μl	1	4.23	4.2	8.43	8.96	0.010	-1.93	0.03	0.05	0.003	-0.45	
Hb g/dl	1	11.8	11.6	23.4	26.3	0.028	-3.56	0.2	0.1	0.007	1.00	
нст%	1	40.2	39.1	79.3	85.7	0.229	-0.98	1.1	0.5	0.025	1.35	
MCV-fl	1	94.5	92.5	187	190.8	0.466	-0.26	2	0.2	0.020	4.86	
МСН-Рд	1	28.2	27.5	55.7	58.7	0.071	-1.40	0.7	0.2	0.011	2.25	
MCHC-g/dl	1	30.7	29.5	60.2	60.8	0.162	-0.13	1.2	0.3	0.016	3.04	
Plt. x10³/µl	1	146	140	286	252	1.160	1.04	6	5	0.327	0.17	
Retic %	2	9.04	9.02	18.06	14.7	0.201	0.57	0.02	0.6	0.045	-0.67	

P.S . Assesment

	1000	YOUR REPORT	CONSENSUS REPORT				
DLC%	3	Nrbcs=4, Poly=49 L=40, E=007, Mono/Promono=04, B1=00 P.M.=0, Mye=0, Meta=0, Other=LEUCOCYTOSIS WITH LYMPHOCYOTOSIS	Lymp: 80-89, Poly: 9-15, Mono: 1-2, nRBC/blast/Eosino/Myelo/Meta: 0-1				
RBC Morphology	3	NORMOCYTIC NORMOCHRONIC	Predominantly: Normocytic/Normochromic; Moderate: Anisocytosis, Microcytosis, Hypochromia; Mild: Macrocytosis, Poikilocytosis				
Diagnosis	3	CHRONIC LYMPHOPROLIFERATIVE DISORDER	Chronic Lymphocytic Leukemia (CLL)				

COMBINED DATA VALUES OF TOTAL PARTICIPANTS

	S.No.	Total								
Test parameters		participants	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	
WBC x10 ³ /μl	1	347	347	84.44	90.2		100000000000000000000000000000000000000	2.00	lab	
RBC x10 ⁶ /µl	1	347	347			4.32	3.46	11.24	6.34	
Hb g/dl	1			87.61	91.35	8.07	3.75	4.32	4.9	
	1	347	347	90.2	89.34	5.76	6.63	4.04	4.03	
HCT%	1	347	347	91.93	91.07	4.9	6.34	3.17	2.59	
MCV-fl	1	347	347	93.37	91.35	3.46	4.32	3.17		
MCH-Pq	1	347	347	Control of the contro	7/33/6		10 NUMBER 10 NUM		4.33	
MCHC-g/dl	1			93.08	92.22	4.61	2.88	2.31	4.9	
	1	347	347	92.51	90.2	5.76	3.46	1.73	6.34	
Plt. x10³/μl	1	347	347	91.64	89.05	5.76	4.61	2.6	6.34	
ReticCount%	2	347	224	92.41	91.52	7.14	2.68	0.45	5.80	
PS Assessment	3	347	213	Satisfactory	:95.96%, Box	rderline Sat.	:3.18%, Un	satisfactory		

'Comments:

- 1). Among Lab (EQA): CBC result for HB unacceptable, may be due to random/human error
- 2). Within Lab (IQA): Difference in the CBC measurement values for MCV & MCHC unacceptable, please check precision/human error.Remaining 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 $IQR = 0.7413 \times IQR$

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.

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-----