



PROFICIENCY TESTING REPORT

ISHTM-AHMS EXTERNAL QUALITY ASSURANCE PROGRAMME

NABL accredited program as per ISO/IEC 17043;2010 standard Organized By Department of Hematology, AIIMS, New Delhi-110029



 $Duration\ of\ stability\ testing\ -\ minimum\ up to\ 8\ days\ at\ ambient\ temp.\ after\ dispatch\ of\ specimens$

EQAP CODE No.: 4501

Distribution No.: 159-L

Month/Year: April/2023

Instrument ID: SWELAB ALFA 18749

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: 13-06-2023[Final].

CBC and Retic Assessment

	S.No.			Among Lab (Accuracy Testing)				Within Lab (Precision Testing)				
Test Parameters		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	Results	Consensus Result Diff. of 2 values (Assigned Value)	Uncertainty of Assigned Values		
WBC x10³/μl	1	4.7	4.6	9.3	7.96	0.031	1.64	0.1	0.1	0.005	0.00	
RBC x10 ⁶ /μl	1	4.83	4.78	9.61	8.96	0.010	2.37	0.05	0.05	0.003	0.00	
Hb g/dl	1	13.6	13.5	27.1	26.3	0.028	0.98	0.1	0.1	0.007	0.00	
нст%	1	45.2	44.8	90	85.7	0.229	0.66	0.4	0.5	0.025	-0.22	
MCV-fl	1	93.6	93.6	187.2	190.8	0.466	-0.24	0	0.2	0.020	-0.54	
MCH-Pg	1	28.4	28.1	56.5	58.7	0.071	-1.02	0.3	0.2	0.011	0.45	
MCHC-g/dl	1	30.3	30	60.3	60.8	0.162	-0.11	0.3	0.3	0.016	0.00	
Plt. x10³/μl	1	112	106	218	252	1.160	-1.04	6	5	0.327	0.17	
Retic %	2	5.6	5.2	10.8	14.7	0.201	-0.66	0.4	0.6	0.045	-0.23	

P.S. Assesment

YOUR REPORT			CONSENSUS REPORT				
DLC%	3	Nrbcs=0 , Poly=15 L=84, E=, Mono/Promono=01 , B1= P.M.=, Mye=, Meta=, Other=	Lymp: 80-89, Poly: 9-15, Mono: 1-2, nRBC/blast/Eosino/Myelo/Meta: 0-1				
RBC Morphology	3	RBC normal in number,Normochromic Normocytic RBC.NO nRBC,poly chromasia seen .	Predominantly: Normocytic/Normochromic; Moderate: Anisocytosis, Microcytosis, Hypochromia; Mild: Macrocytosis, Poikilocytosis				
Diagnosis	3	Absolute lymphocytosis with smudge cells favour chronic Lymphoproliferative disorder like CLL. Thrombocytopenia (mild)	Chronic Lymphocytic Leukemia (CLL)				

COMBINED DATA VALUES OF TOTAL PARTICIPANTS

1	S.No.	Total participants	Total No. responded	% of Labs with Z Score 0-2		% of Labs with Z Score 2-3		% of Labs with Z Score >3		
arameters		covered in the current dist. 159L		Among labs	Within lab	Among labs	Within lab	Among labs	Within lab	
		347	347	84.44	90.2	4.32	3.46	11.24	6.34	
WBC x10³/μl	1	347	347	87.61	91.35	8.07	3.75	4.32	4.9	
RBC x10 ⁶ /μl	1			-		5.76	6.63	4.04	4.03	
Hb g/dl	1	347	347	90.2	89.34		6.34	3.17	2.59	
HCT%	1	347	347	91.93	91.07	4.9		3.17	4.33	
MCV-fl	1	347	347	93.37	91.35	3.46	4.32	2.31	4.9	
	1	347	347	93.08	92.22	4.61	2.88		6.34	
мсн-Рд		347	347	92.51	90.2	5.76	3.46	1.73	6.34	
MCHC-g/dl	1				89.05	5.76	4.61	2.6		
Plt. x10³/μl	1	347	347	91.64	-1.50	7.14	2.68	0.45	5.80	
ReticCount%	2	347	224	92.41	91.52	1line Cat	2 Sat .3 18% Unsatisfactory :0.86%			
PS Assessment	3	347	213	92.41 91.52 7.14 2.05 92.41 Satisfactory :95.96%, Borderline Sat. :3.18%, Unsatisfactory :0.86%						

'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

 $\textbf{IQA} \ (\ \textbf{Internal Quality Assurance}): Your \ \textbf{Performance of comparison of two consecutive measurement values within a superior of the property of t$ 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 $> \pm 3$: Unacceptable [As per ISO/IEC]

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 $> \pm 3$ 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.

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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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