

PROFICIENCY TESTING REPORT ISHTM-AIIMS EXTERNAL QUALITY ASSURANCE PROGRAMME NABL accredited program as per ISO/IEC 17043:2010 standard



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

EQAP CODE No.: 4963

Distribution No.: 158-M

Month/Year: January/2023

Instrument ID: K1104B2145264

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: 28-02-2023[Final].

CBC and Retic Assessment

				Among Lab (Accuracy Testing)				Within Lab (Precision Testing)				
Test Parameters	S.No.	Your Result 1		Your Results Sum of 2 Value	Consensus result sum of 2 values (Assigned Value)	Uncertainty		Results	Consensus Result Diff. of 2 values (Assigned Value)	Uncertainty of Assigned Values	Z Score	
WBC x10³/µl	1	6.42	6.23	12.65	13.31	0.0350	-0.76	0.19	0.1	0.0070	0.93	
RBC x10 ⁶ /µl	1	5.15	5.12	10.27	10.25	0.0120	0.07	0.03	0.05	0.0030	-0.39	
Hb g/dl	1	12.8	12.8	25.6	26.5	0.0270	-1.21	0	0.1	0.0080	-0.67	
HCT%	1	44.7	44. <mark>4</mark>	89.1	85.7	0.2190	0.46	0.3	0.4	0.0250	-0.26	
MCV-fl	1	86.9	86.8	173.7	169.35	0.3530	0.38	0.1	0.3	0.0190	-0.63	
MCH-Pg	1	24.9	24.9	49.8	51.5	0.0590	-1.04	0	0.2	0.0140	-0.90	
MCHC-g/dl	1	28.7	28.7	57.4	61	0.1400	-0.66	0	0.3	0.0210	-1.01	
Plt. x10³/µl	1	408	379	787	781	2.99	0.07	29	9	0.52	2.45	
Retic %	2	1.3	1.3	2.6	15.35	0.22	-2.14	0	0.5	0.03	-0.84	

P.S . Assesment

YOUR REPORT			CONSENSUS REPORT				
DLC%	3		Blast: 65-88, Lympho: 5-14, Poly: 2-5, nRBC/Eos/Baso/Mono /Myelo/Meta/ Promyelo: 0-5				
RBC Morphology	3	INITCLEATED RRUS SEEN LARDET CELLS SEEN	Predominantly: Normocytic/ Normochromic, Moderate: Anisocytosis, Microcytic				
Diagnosis	3		Acute Leukemia (AL)				

Page 2 of 2

COMBINED DATA VALUES OF TOTAL PARTICIPANTS

Test never store	S No	Total participants covered in the	Total No. responded	% of Labs with Z Score 0-2		% of Labs with Z Score 2-3		% of Labs with Z Score >3	
Test parameters	5.NU.	current dist. 158M		Among labs	Within lab	Among labs	Within lab	Among labs	Within lab
WBC x10 ³ /µl	1	338	335	<mark>83</mark> .88	84.18	6.27	6.27	9.85	9.55
RBC x10 ⁶ /µl	1	338	338	<mark>89.64</mark>	89.35	5.92	5.03	4.44	5.62
Hb g/dl	1	338	338	88.76	85.21	5.03	4.44	6.21	10.35
HCT%	1	338	3 <mark>36</mark>	97.92	89.88	0.89	5.36	1.19	4.76
MCV-fl	1	338	336	97.62	87.2	1.79	6.55	0.59	6.25
MCH-Pg	1	338	336	88.39	<mark>8</mark> 9.58	7.44	4.76	4.17	5.66
MCHC-g/dl	1	338	336	98.21	<mark>86.9</mark>	0.89	7.74	0.9	5.36
Plt. x10³/µl	1	338	336	94.64	92.26	3.27	2.98	2.09	4.76
ReticCount%	2	338	296	91.22	85.14	6.08	9.8	2.7	5.06
PS Assessment	3	338	283	Satisfactory :97.93%, Borderline Sat. :1.18%, Unsatisfactory :0.890%					

*Comments:

1). Among Lab (EQA) : PS Diagnosis not reported, remaining 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,

Jege-

Dr. Seema Tyagi (Prof.) PT Co-ordinator: ISHTM-AIIMS-EQAP Department of Hematology, AIIMS, New Delhi

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