

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



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

EQAP CODE No.: 2986

Distribution No.: 159-G Month/Year: March/2023

Instrument ID: BENESPERA H33s TH-84004555

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: 01-05-2023[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 of Assigned Values	Z Score	Deculto		Uncertainty of Assigned Values	Z Score	
WBC x10³/µl	1	4.5	4.5	9	8.21	0.046	0.71	0	0.1	0.007	-0.90	
RBC x10 ⁶ /µl	1	4.13	4.13	8.26	8.8	0.010	-2.75	0	0.04	0.003	-1.08	
Hb g/dl	1	13.1	13	26.1	25.9	0.024	0.32	0.1	0.1	0.008	0.00	
HCT%	1	38.7	38. <mark>5</mark>	77.2	80.5	0.180	-0.74	0.2	0.3	0.027	-0.27	
MCV-fl	1	93.8	93.2	187	183.65	0.290	0.43	0.6	0.3	0.025	0.81	
MCH-Pg	1	31.7	31.6	63.3	59	0.073	2.52	0.1	0.2	0.017	-0.45	
MCHC-g/dl	1	34.1	33.7	67.8	64.05	0.136	1.09	0.4	0.3	0.020	0.34	
Plt. x10³/µl	1	140	138	278	293	1.455	-0.40	2	4.5	0.344	-0.48	
Retic %	2	14	12	26	8.15	0.186	3.81	2	0.4	0.026	6.17	

P.S. Assesment

		YOUR REPORT	CONSENSUS REPORT				
DLC%	3		Poly: 55-66, Lympho: 24-34, Mono: 1-4, Eosino: 1-3, blast/Promyelo/Myelo/Meta: 0-5				
RBC Morphology	3		Predominantly: Normocytic/Normochromic; Moderate: Anisocytosis, Microcytosis, Hypochromia; Mild: Poikilocytosis , Target cells , Sickle shaped cells ,tear drop cells				
Diagnosis	3	Hemolytic anemia of moderate degree.Advised Haemoglobin electrophoresis and Coombs test	Thalassemia/Haemoglobinopathy				

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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. 159G		Among labs	Within lab	Among labs	Within lab	Among labs	Within lab	
WBC x10 ³ /µl	1	248	248	<mark>87</mark> .5	88.31	4.44	3.63	8.06	8.06	
RBC x10 ⁶ /µl	1	248	248	79.84	87.9	10.48	6.05	9.68	6.05	
Hb g/dl	1	248	248	88.71	92.34	4.84	3.63	6.45	4.03	
HCT%	1	248	2 <mark>48</mark>	94.35	89.92	4.44	4.84	1.21	5.24	
MCV-fl	1	248	248	96.77	91.53	2.42	3.23	0.81	5.24	
MCH-Pg	1	248	247	91.9	<mark>94</mark> .74	6.07	0.4	2.03	4.86	
MCHC-g/dl	1	248	248	94.76	90.73	4.84	2.82	0.4	6.45	
Plt. x10³/µl	1	248	248	92.74	93.95	5.24	4.03	2.02	2.02	
ReticCount%	2	248	216	91.2	84.26	5.56	9.26	3.24	6.48	
PS Assessment	3	248	218	Satisfactory :90.74%, Borderline Sat. :8.06%, Unsatisfactory :1.20%						

*Comments:

1). Among Lab (EQA) : RETIC result is unacceptable, may be due to random/human error.

2). Within Lab (IQA) : **RETIC** result is 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 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 guarterly 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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