



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. : 2141

Distribution No.: 164-E

Month/Year: June/2024

Instrument ID: HORIBA

Model Name.: YUMIZEN YH550

Serial No.: 207YAXH03887

Name & Contact No. of PT Co-ordinator: Dr. Manoranjan Mahapatra (Prof. & Head), Hematology, AIIMS, Delhi,
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Date of issue & status of the report: 05-08-2024[Final].

CBC and Retic Assessment

Test Parameters	S.No.	Among Lab (Accuracy Testing)						Within Lab (Precision Testing)			
		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	Yours Results Diff. of 2 Values	Consensus Result Diff. of 2 values (Assigned Value)	Uncertainty of Assigned Values	Z Score
WBC x10 ³ /µl	1	0.71	0.68	1.39	28.28	0.639	-1.25	0.03	0.3	0.021	-0.66
RBC x10 ⁶ /µl	1	4.89	4.86	9.75	9.7	0.011	0.17	0.03	0.04	0.003	-0.19
Hb g/dl	1	13.6	13.5	27.1	27.6	0.029	-0.62	0.1	0.1	0.008	0.00
HCT%	1	42.7	42.4	85.1	86.8	0.235	-0.25	0.3	0.4	0.025	-0.19
MCV-fl	1	87.8	86.8	174.6	178.9	0.448	-0.36	1	0.3	0.023	1.89
MCH-Pg	1	28	27.6	55.6	56.95	0.082	-0.63	0.4	0.3	0.013	0.34
MCHC-g/dl	1	31.9	31.8	63.7	63.5	0.181	0.04	0.1	0.3	0.022	-0.54
Plt. x10 ³ /µl	1	84	83	167	175	2.475	-0.11	1	5	0.342	-0.67
Retic %	2	12	10	22	21.6	0.244	0.06	2	0.7	0.047	1.35

P.S . Assesment

YOUR REPORT		CONSENSUS REPORT
DLC%	3	Nrbcs=10 , Poly=72 L=21, E=03, Mono/Promono=04 , B1=00 P.M.=00, Mye=00, Meta=00, Other=0
RBC Morphology	3	Poly: 53-64, Lympho: 28-38, Eosino: 1-3, Mono: 2-5, blast/Promyelo/Myelo/Meta: 0-5
Diagnosis	3	Hemolytic Anemia .Possibly Thalassemia
		Predominantly: Microcytic, Hypochromic, Moderate: Anisopoikilocytosis Mild:Target cells , Tear drop cells
		Thalassemia Hemoglobinopathy

COMBINED DATA VALUES OF TOTAL PARTICIPANTS

Test parameters	S.No.	Total participants covered in the current dist. 164--E	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 lab
WBC x10³/µl	1	328	324	83.95	86.11	3.7	6.17	12.35	7.72
RBC x10⁶/µl	1	328	328	87.2	92.07	7.93	3.96	4.87	3.97
Hb g/dl	1	328	328	86.59	82.32	6.1	8.84	7.31	8.84
HCT%	1	328	325	95.08	90.15	2.46	5.23	2.46	4.62
MCV-fl	1	328	324	92.28	94.44	4.63	2.16	3.09	3.4
MCH-Pg	1	328	324	88.58	90.12	5.25	6.79	6.17	3.09
MCHC-g/dl	1	328	324	92.9	92.59	4.32	2.78	2.78	4.63
Plt. x10³/µl	1	328	326	92.94	89.57	3.07	5.52	3.99	4.91
ReticCount%	2	328	289	87.2	95.85	10.38	2.08	2.42	2.07
PS Assessment	3	328	289	Satisfactory :95.75%, Borderline Sat. :1.82%, Unsatisfactory :2.43%					

***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 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 $> \pm 3$: 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 $> \pm 3$ 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 ($\bar{x}-\bar{y}$) 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,



Dr. Manoranjan Mahapatra (Prof. & Head)

PT Co-ordinator: ISHTM-AIIMS-EQAP

Department of Hematology, AIIMS, New Delhi

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