



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. : 598

Distribution No.: 164-B

Month/Year: May/2024

Instrument ID: Horiba

Model Name.: Yumizenh550

Serial No.: 302YADr105317

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: 15-07-2024[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	4.8	3.8	8.6	11.24	0.052	-1.80	1	0.1	0.006	7.59
RBC x10 ⁶ /µl	1	3.17	3.16	6.33	6.39	0.011	-0.20	0.01	0.03	0.002	-0.67
Hb g/dl	1	10.4	10.4	20.8	20.7	0.035	0.10	0	0.1	0.006	-1.35
HCT%	1	30.7	30	60.7	63.6	0.177	-0.56	0.7	0.3	0.016	1.35
MCV-fl	1	97	97	194	197.9	0.340	-0.38	0	0.3	0.019	-1.01
MCH-Pg	1	33	30.2	63.2	64.8	0.066	-0.86	2.8	0.2	0.014	8.77
MCHC-g/dl	1	34	34	68	65.1	0.138	0.71	0	0.3	0.017	-1.01
Plt. x10 ³ /µl	1	87	82	169	216	1.010	-1.67	5	4	0.199	0.27
Retic %	2	12	10	22	30	0.416	-0.60	2	0.6	0.042	1.84

P.S . Assesment

YOUR REPORT			CONSENSUS REPORT		
DLC%	3	Nrbcs=05 , Poly=07 L=04, E=08, Mono/Promono=01 , B1=04 P.M.=02, Mye=25, Meta=12, Other=Nil	Poly: 19 - 36, Myelo: 20 - 37, Lympho: 5 - 12, Meta: 7-17, Promyelo: 2-10, Eosino: 2-7, Mono: 1-3, Blast: 2 - 5, Baso: 0-5		
RBC Morphology	3	Normocytic normochromic rbc with 5n rbc/100 wbc seen	Predominantly: Normocytic/Normochromic; Moderate: Anisocytosis, Mild: Polychromatophils (+), Poikilocytosis, Macrocytes		
Diagnosis	3	Myeloproliferative neoplasm : chronic myelogenous leukemia - chronic phase	MPN likely CML-CP		

COMBINED DATA VALUES OF TOTAL PARTICIPANTS

Test parameters	S.No.	Total participants covered in the current dist. 164--B	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	389	388	86.6	87.37	6.19	5.41	7.21	7.22
RBC x10⁶/µl	1	389	389	83.03	88.17	3.34	4.37	13.63	7.46
Hb g/dl	1	389	389	81.49	93.83	3.6	3.08	14.91	3.09
HCT%	1	389	389	87.4	88.43	9.25	7.46	3.35	4.11
MCV-fl	1	389	389	91.52	86.12	3.34	8.74	5.14	5.14
MCH-Pg	1	389	389	86.89	92.8	7.2	3.86	5.91	3.34
MCHC-g/dl	1	389	389	89.72	93.83	6.94	3.6	3.34	2.57
Plt. x10³/µl	1	389	389	87.15	93.57	9.51	3.34	3.34	3.09
ReticCount%	2	389	362	95.58	93.92	3.59	2.76	0.83	3.32
PS Assessment	3	389	363	Satisfactory :92.02%, Borderline Sat. :3.09%, Unsatisfactory :4.89%					

***Comments:**

1). **Among Lab (EQA) : Results acceptable.**

2). **Within Lab (IQA) : Difference in the CBC measurement values for WBC & MCH 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 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,



Dr. Manoranjan Mahapatra (Prof. & Head)

PT Co-ordinator: ISHTM-AIIMS-EQAP

Department of Hematology, AIIMS, New Delhi

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