



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. : 5345

Distribution No.: 159-N

Month/Year: April/2023

Instrument ID: YUMZEEN2500 (104MZXHOO652)

Name & Contact No. of PT Co-ordinator: Dr. Seema Tyagi (Prof.), Hematology, AIIMS, Delhi,
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Date of issue & status of the report: 14-06-2023[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	2.97	2.58	5.55	8.1	0.039	-2.12	0.39	0.1	0.007	2.45
RBC x10 ⁶ /µl	1	5.43	5.36	10.79	10.7	0.013	0.24	0.07	0.05	0.003	0.34
Hb g/dl	1	12.7	12.6	25.3	25.2	0.026	0.12	0.1	0.1	0.007	0.00
HCT%	1	39.6	38.9	78.5	79.8	0.155	-0.28	0.7	0.4	0.025	0.67
MCV-fl	1	72.9	72.7	145.6	149.4	0.206	-0.59	0.2	0.2	0.017	0.00
MCH-Pg	1	23.6	23.3	46.9	46.8	0.059	0.06	0.3	0.2	0.012	0.67
MCHC-g/dl	1	32.4	32	64.4	62.5	0.120	0.50	0.4	0.3	0.018	0.34
Plt. x10 ³ /µl	1	150	148	298	370.5	1.599	-1.50	2	7	0.392	-0.73
Retic %	2	16	15	31	15.7	0.249	2.02	1	0.5	0.034	0.84

P.S . Assesment

YOUR REPORT		CONSENSUS REPORT
DLC%	3	Nrbcs=4 , Poly=42 L=8, E=4, Mono/Promono=1 , B1=3 P.M.=3, Mye=22, Meta=16, Other=
RBC Morphology	3	Poly: 44 - 60, Myelo: 10 - 22, Meta: 7- 16, Lympho: 2- 6, Promyelo: 2-6, Eosino: 1-4, Blast: 1-4, Mono: 1 - 3, nRBC/Baso: 0-5
Diagnosis	3	MICROCYTIC HYPOCHROMIC ,ANISOPOIKILOCYTOSIS+,TEAR DROP CELLS, POLYCHROMATIC CELLS Chronic Myeloid Leukemia (Chronic Phase)

COMBINED DATA VALUES OF TOTAL PARTICIPANTS

Test parameters	S.No.	Total participants covered in the current dist. 159--N	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	364	359	88.58	86.07	3.06	6.69	8.36	7.24
RBC x10⁶/µl	1	364	364	87.64	87.09	6.87	4.95	5.49	7.96
Hb g/dl	1	364	364	90.66	84.89	4.95	5.22	4.39	9.89
HCT%	1	364	360	94.72	87.5	4.44	4.72	0.84	7.78
MCV-fl	1	364	360	93.06	88.33	5.28	6.67	1.66	5
MCH-Pg	1	364	360	86.94	93.06	8.06	1.67	5	5.27
MCHC-g/dl	1	364	359	93.87	87.19	5.29	5.85	0.84	6.96
Plt. x10³/µl	1	364	360	93.61	91.94	3.89	4.17	2.5	3.89
ReticCount%	2	364	273	93.41	84.62	4.76	8.79	1.83	6.59
PS Assessment	3	364	267	Satisfactory :93.95%, Borderline Sat. :2.20%, Unsatisfactory :3.85%					

***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 > ±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. Seema Tyagi (Prof.)

PT Co-ordinator: ISHTM-AIIMS-EQAP

Department of Hematology, AIIMS, New Delhi

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