



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. : 3659

Distribution No.: 159-J

Month/Year: March/2023

Instrument ID: TH16009935

Name & Contact No. of PT Co-ordinator: Dr. Manoranjan Mahapatra (Prof. & Head), Hematology, AIIMS, Delhi,
 Tel: 9013085730 , E-Mail : accuracy2000@gmail.com

Date of issue & status of the report: 01-06-2023[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	5.7	5.5	11.2	10.36	0.038	0.71	0.2	0.1	0.008	0.75
RBC x10 ⁶ /µl	1	4.41	4.34	8.75	8.99	0.011	-0.83	0.07	0.04	0.003	0.67
Hb g/dl	1	14.7	14.4	29.1	29.3	0.029	-0.27	0.3	0.1	0.008	1.35
HCT%	1	44.6	43.9	88.5	88.55	0.234	-0.01	0.7	0.4	0.027	0.67
MCV-fl	1	101.1	101.1	202.2	196.05	0.390	0.53	0	0.3	0.023	-0.67
MCH-Pg	1	33.2	33.1	66.3	65.5	0.076	0.40	0.1	0.3	0.018	-0.67
MCHC-g/dl	1	32.9	32.8	65.7	65.9	0.163	-0.05	0.1	0.3	0.020	-0.67
Plt. x10 ³ /µl	1	111	107	218	255	1.285	-1.02	4	4	0.284	0.00
Retic %	2	10.7	10	20.7	24.65	0.520	-0.28	0.7	1	0.062	-0.27

P.S . Assesment

YOUR REPORT			CONSENSUS REPORT
DLC%	3	Nrbcs=01 , Poly=24 L=01, E=03, Mono/Promono=02 , B1=02 P.M.=04, Mye=34, Meta=29, Other=	Poly: 25 - 45, Myelo: 15 - 31, Meta: 10- 20, Lympho: 2- 7, Eosino: 1-4, Promyelo: 2-7, Blast: 1-4, Mono: 1 - 3, nRBC/Baso: 0-5
RBC Morphology	3	NORMOCYTES++	Predominantly: Normocytic/Normochromic; Moderate: Anisocytosis, hypochromia, Microcytosis; Mild: Macrocytosis, Poikilocytosis
Diagnosis	3	CHRONIC MYELOPROLIFERATIVE DISORDER ? CML , ADVICE: BCR ABL FUSION GENE ANALYSIS	Chronic Myeloid Leukemia (Chronic Phase)

COMBINED DATA VALUES OF TOTAL PARTICIPANTS

Test parameters	S.No.	Total participants covered in the current dist. 159--J	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 x10 ³ /µl	1	308	302	83.44	86.75	2.98	5.96	13.58	7.29
RBC x10 ⁶ /µl	1	308	308	87.66	90.26	5.52	2.92	6.82	6.82
Hb g/dl	1	308	308	81.49	83.44	5.52	6.49	12.99	10.07
HCT%	1	308	304	91.12	89.8	5.92	3.62	2.96	6.58
MCV-fl	1	308	304	95.72	92.43	1.97	2.96	2.31	4.61
MCH-Pg	1	308	304	88.82	89.14	6.58	2.63	4.6	8.23
MCHC-g/dl	1	308	304	93.42	89.14	3.29	6.58	3.29	4.28
Plt. x10 ³ /µl	1	308	304	94.41	91.12	3.29	6.25	2.3	2.63
ReticCount%	2	308	268	94.4	92.16	4.85	3.36	0.75	4.48
PS Assessment	3	308	268	Satisfactory :95.46%, Borderline Sat. :2.27%, Unsatisfactory :2.27%					

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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