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

PC-1002

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

EQAP CODE No. : 1716 **Distribution No.:** 161-D **Month/Year:** September/2023

Instrument ID: Model: KT 6610 (0820207231936) **Model Name.:** **Serial No.:**

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

Date of issue & status of the report: 23-10-2023[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	3.38	3.29	6.67	7.61	0.024	**-1.44**	0.09	0.09	0.005	**0.00**
RBC x10^6/µl	1	4.01	3.97	7.98	8.51	0.008	**-2.47**	0.04	0.03	0.002	**0.27**
Hb g/dl	1	13.1	13	26.1	27.9	0.026	**-2.70**	0.1	0.1	0.007	**0.00**
HCT%	1	39.8	39.5	79.3	83.8	0.138	**-1.17**	0.3	0.3	0.022	**0.00**
MCV-fl	1	99.5	99.3	198.8	197.2	0.252	**0.23**	0.2	0.3	0.020	**-0.34**
MCH-Pg	1	32.9	32.3	65.2	65.35	0.068	**-0.08**	0.6	0.2	0.014	**1.80**
MCHC-g/dl	1	33.1	32.5	65.6	66.2	0.120	**-0.17**	0.6	0.3	0.016	**1.01**
Plt. x10^3/µl	1	166	155	321	311	0.930	**0.39**	11	4	0.252	**1.57**
Retic %	2	3	2.7	5.7	5.05	0.122	**0.17**	0.3	0.2	0.012	**0.34**

P.S . Assesment

		YOUR REPORT	CONSENSUS REPORT
DLC%	3	Nrbcs=02 , Poly=49 L=01, E=02, Mono/Promono=02 , B1=03 P.M.=01, Mye=21, Meta=13, Other=	Poly: 48 – 62, Myelo: 10 - 20, Meta: 7– 15, Promyelo: 2-7, Blast: 2-5, Lympho: 2– 5, Eosino: 1-2, nRBC/Mono, Baso: 0-5
RBC Morphology	3	normoyctic normochromic predominantly	Predominantly: Normocytic/Normochromic; Moderate: Anisocytosis, Hypochromic, Mild: Poikilocytosis
Diagnosis	3	Chronic myeloid leukeamia; chronic phase.	Chronic Myeloid Leukemia (Chronic Phase)

COMBINED DATA VALUES OF TOTAL PARTICIPANTS

Test parameters	S.No.	Total participants covered in the current dist. 161--D	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	346	342	85.67	93.86	4.39	3.22	9.94	2.92
RBC $x10^6$/µl	1	346	346	89.02	84.68	6.94	7.8	4.04	7.52
Hb g/dl	1	346	346	85.55	89.31	6.94	4.05	7.51	6.64
HCT%	1	346	343	93.88	84.84	3.5	8.16	2.62	7
MCV-fl	1	346	342	91.52	91.23	6.14	2.63	2.34	6.14
MCH-Pg	1	346	343	88.05	94.17	6.41	2.04	5.54	3.79
MCHC-g/dl	1	346	343	93.29	91.25	4.08	2.04	2.63	6.71
Plt. $x10^3$/µl	1	346	343	91.55	91.55	5.25	3.79	3.2	4.66
ReticCount%	2	346	303	90.76	87.13	6.93	2.31	2.31	10.56
PS Assessment	3	346	323	Satisfactory :94.18%, Borderline Sat. :3.20%, Unsatisfactory :2.62%					

*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. Manoranjan Mahapatra (Prof. & Head)
PT Co-ordinator: ISHTM-AIIMS-EQAP
Department of Hematology, AIIMS, New Delhi

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