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. : 6026 **Distribution No.:** 161-O **Month/Year:** October/2023

Instrument ID: ERBA **Model Name.:** H560 **Serial No.:** K1104B2323123

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: 15-01-2024[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	3.67	3.55	7.22	7.3	0.032	**-0.09**	0.12	0.1	0.007	**0.16**
RBC x10^6/µl	1	3.51	3.47	6.98	7.02	0.009	**-0.17**	0.04	0.04	0.002	**0.00**
Hb g/dl	1	10.2	10.1	20.3	21.8	0.027	**-2.25**	0.1	0.1	0.008	**0.00**
HCT%	1	35	34.6	69.6	68.2	0.165	**0.32**	0.4	0.4	0.024	**0.00**
MCV-fl	1	99.8	99.7	199.5	194.8	0.360	**0.46**	0.1	0.3	0.020	**-0.54**
MCH-Pg	1	29.4	28.8	58.2	61.8	0.091	**-1.54**	0.6	0.3	0.018	**1.35**
MCHC-g/dl	1	29.4	28.9	58.3	63.9	0.164	**-1.27**	0.5	0.3	0.022	**0.67**
Plt. x10^3/µl	1	203	203	406	349	1.479	**1.31**	0	5	0.314	**-0.96**
Retic %	2	2.8	2.4	5.2	13	0.313	**-0.68**	0.4	0.5	0.036	**-0.17**

P.S . Assesment

		YOUR REPORT	CONSENSUS REPORT
DLC%	3	Nrbcs=0 , Poly=8 L=92, E=0, Mono/Promono=0 , B1=0 P.M.=0, Mye=0, Meta=0, Other=Many smudge cells seen	Lymp: 77-88, Poly: 7-12, Eosino: 1-2, mono: 1-3, nRBC/blast/Myelo/Meta: 0-5
RBC Morphology	3	Predominantly normocytic normochromic with mild microcytic hypochromic cells, mild anisopoikilocytosis.	Predominantly: Normocytic/Normochromic; Moderate: Anisocytosis, Mild: Poikilocytosis.
Diagnosis	3	Chronic Lymphocytic Leukemia with mild microcytic hypochromic anemia	Chronic Lymphoproliferative Disorder

COMBINED DATA VALUES OF TOTAL PARTICIPANTS

Test parameters	S.No.	Total participants covered in the current dist. 161--O	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	332	332	87.65	92.77	4.22	2.11	8.13	5.12
RBC $x10^6$/µl	1	332	332	87.65	93.67	5.42	1.51	6.93	4.82
Hb g/dl	1	332	332	87.65	87.35	4.22	4.82	8.13	7.83
HCT%	1	332	332	88.55	88.25	6.63	4.82	4.82	6.93
MCV-fl	1	332	332	91.87	85.24	6.33	4.52	1.8	10.24
MCH-Pg	1	332	332	87.95	89.16	6.93	4.82	5.12	6.02
MCHC-g/dl	1	332	332	90.66	89.46	5.42	5.72	3.92	4.82
Plt. $x10^3$/µl	1	332	332	93.07	90.06	3.31	3.92	3.62	6.02
ReticCount%	2	332	255	96.47	83.92	1.96	9.41	1.57	6.67
PS Assessment	3	332	260	Satisfactory :91.57%, Borderline Sat. :3.31%, Unsatisfactory :5.12%					

*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)
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