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. : 1903 **Distribution No.:** 163-E **Month/Year:** March/2024

Instrument ID: TRANSASIA **Model Name.:** H-560 **Serial No.:** K11042017001

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: 06-05-2024[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	5.88	5.64	11.52	11.03	0.031	**0.55**	0.24	0.1	0.006	**1.18**
RBC x10^6/µl	1	3.85	3.79	7.64	7.38	0.009	**1.12**	0.06	0.03	0.002	**1.01**
Hb g/dl	1	12.7	12.7	25.4	25.5	0.027	**-0.15**	0	0.1	0.007	**-1.35**
HCT%	1	39.6	39.1	78.7	78.7	0.141	**0.00**	0.5	0.4	0.024	**0.27**
MCV-fl	1	102.9	102.8	205.7	212.9	0.298	**-0.84**	0.1	0.3	0.020	**-0.54**
MCH-Pg	1	33.6	33	66.6	69.3	0.087	**-1.19**	0.6	0.3	0.018	**1.09**
MCHC-g/dl	1	32.6	32.1	64.7	64.75	0.119	**-0.01**	0.5	0.3	0.020	**0.67**
Plt. x10^3/µl	1	192	190	382	319	1.365	**1.67**	2	4	0.259	**-0.45**
Retic %	2	8	7.4	15.4	15.3	0.206	**0.02**	0.6	0.5	0.034	**0.17**

P.S . Assesment

		YOUR REPORT	CONSENSUS REPORT
DLC%	3	Nrbcs=0 , Poly=18 L=02, E=00, Mono/Promono=00 , B1=78 P.M.=02, Mye=00, Meta=00, Other=NIL	Blast: 70-88, Poly: 5-9, Lympho: 3-8, Myelo/Mono/Promyelo/Meta/Eos/Baso: 0-5
RBC Morphology	3	NORMOCYTIC HYPOCHROMIC, MICROCYTIC, MILD ANISOCYTOSIS.	Predominantly: Normocytic/Normochromic; Moderate: Anisocytosis, Mild: Microcytosis, Poikilocytosis
Diagnosis	3	AML	Acute Myeloid Leukemia(AML)

COMBINED DATA VALUES OF TOTAL PARTICIPANTS

Test parameters	S.No.	Total participants covered in the current dist. 163--E	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	333	331	86.4	93.05	5.44	1.81	8.16	5.14
RBC x10^6/µl	1	333	333	89.19	93.99	6.91	2.7	3.9	3.31
Hb g/dl	1	333	333	87.39	90.39	6.91	4.5	5.7	5.11
HCT%	1	333	331	93.96	92.75	2.72	4.83	3.32	2.42
MCV-fl	1	333	330	91.82	92.73	5.45	2.73	2.73	4.54
MCH-Pg	1	333	330	89.7	88.48	6.06	4.24	4.24	7.28
MCHC-g/dl	1	333	330	92.42	88.48	4.55	4.24	3.03	7.28
Plt. x10^3/µl	1	333	331	91.54	93.35	6.34	3.02	2.12	3.63
ReticCount%	2	333	294	95.92	86.05	2.72	8.84	1.36	5.11
PS Assessment	3	333	289	Satisfactory :95.5%, Borderline Sat. :4.20%, Unsatisfactory :0.30%					

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,

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