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. : 2069   **Distribution No.:** 158-E   **Month/Year:** December/2022

Instrument ID: TW-02000921

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: 24-01-2023[Final].

CBC and Retic Assessment

Test Parameters	S.No.	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
					Among Lab (Accuracy Testing)				**Within Lab (Precision Testing)**		
WBC x10³/µl	1	8.05	8.03	16.08	15.7	0.0450	**0.32**	0.02	0.13	0.0080	**-1.06**
RBC x10⁶/µl	1	3.63	3.58	7.21	6.92	0.0070	**1.56**	0.05	0.03	0.0020	**0.54**
Hb g/dl	1	12.8	12.7	25.5	25.1	0.0210	**0.77**	0.1	0.1	0.0080	**0.00**
HCT%	1	42.8	42.2	85	78.25	0.1850	**1.25**	0.6	0.4	0.0250	**0.67**
MCV-fl	1	117.9	117.7	235.6	225.5	0.5040	**0.70**	0.2	0.3	0.0230	**-0.27**
MCH-Pg	1	35.7	35	70.7	72.6	0.0840	**-0.99**	0.7	0.3	0.0210	**1.35**
MCHC-g/dl	1	30.2	29.7	59.9	63.8	0.1540	**-0.80**	0.5	0.3	0.0190	**0.67**
Plt. x10³/µl	1	231	214	445	459	1.62	**-0.35**	17	5	0.35	**2.31**
Retic %	2	5.8	5.2	11	29	0.68	**-0.85**	0.6	1	0.07	**-0.36**

P.S . Assesment

		YOUR REPORT	CONSENSUS REPORT
DLC%	3	Nrbcs=0 , Poly=4 L=1, E=0, Mono/Promono=3 , B1=89 P.M.=1, Mye=1, Meta=1, Other=	Blast: 65-87, Poly: 5-10, Lympho: 3-8, Myelo: 0-7, Mono: 1-10.5, nRBC/Promyelo/Meta/Eos: 0-5
RBC Morphology	3	predominanatly: are normocytic normochromic,mild normocytic hypochromic rbcs	Predominantly: Normocytic/Normochromic; Moderate: Microcytosis, Hypochromia; Mild: Anisocytosis, Macrocytosis
Diagnosis	3	ACUTE LEUKEMIA (probably of myeloid origin)	Acute Myeloid Leukemia (AML)

COMBINED DATA VALUES OF TOTAL PARTICIPANTS

Test parameters	S.No.	Total participants covered in the current dist. 158--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 x10³/µl	1	292	290	83.79	88.28	3.79	5.52	12.42	6.2
RBC x10⁶/µl	1	292	292	88.01	93.49	7.53	2.4	4.46	4.11
Hb g/dl	1	292	292	87.67	90.41	4.11	6.51	8.22	3.08
HCT%	1	292	290	96.55	92.41	2.07	3.79	1.38	3.8
MCV-fl	1	292	289	97.58	95.16	1.73	2.08	0.69	2.76
MCH-Pg	1	292	289	86.85	87.54	8.3	7.27	4.85	5.19
MCHC-g/dl	1	292	289	96.89	86.51	2.42	6.23	0.69	7.26
Plt. x10³/µl	1	292	290	89.66	92.07	7.59	2.41	2.75	5.52
ReticCount%	2	292	261	96.93	89.66	2.68	1.53	0.39	8.81
PS Assessment	3	292	265	Satisfactory :87.3%, Borderline Sat. :5.49%, Unsatisfactory :7.21%					

*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 ($\overline{x}$-$\overline{y}$) 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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-----------End Of Report-----------