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. : 3013 **Distribution No.:** 156-G **Month/Year:** June/2022

Instrument ID: RD7310(1503)

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: 28-08-2022[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	4.11	4.08	8.19	8.4	0.0270	-0.38	0.03	0.1	0.0080	-0.56
RBC x10^6/µl	1	3.9	3.85	7.75	7.76	0.0090	-0.04	0.05	0.03	0.0020	0.54
Hb g/dl	1	12.8	12.6	25.4	24.8	0.0300	0.90	0.2	0.1	0.0080	1.35
HCT%	1	40.7	40.2	80.9	78.86	0.1620	0.53	0.5	0.4	0.0270	0.34
MCV-fl	1	104.4	104.2	208.6	203	0.3400	0.64	0.2	0.4	0.0320	-0.45
MCH-Pg	1	32.8	32.7	65.5	63.9	0.0750	0.86	0.1	0.2	0.0150	-0.45
MCHC-g/dl	1	31.4	31.4	62.8	62.75	0.1330	0.01	0	0.3	0.0160	-1.35
Plt. x10^3/µl	1	209	207	416	418	1.64	-0.05	2	6	0.37	-0.77
Retic %	2	0.4	0.3	0.7	13	0.25	-1.96	0.1	0.5	0.03	-0.67

P.S . Assesment

		YOUR REPORT	CONSENSUS REPORT
DLC%	3	Nrbcs= , Poly=31 L=3, E=, Mono/Promono= , B1=4 P.M.=60, Mye=, Meta=, Other=	Blast: 21-71, Poly: 7-13, Lympho: 4-10, Promyelo: 1-15, Myelo/Mono/Meta: 1-8, nRBC/Eos: 0-
RBC Morphology	3	NORMOCYTIC NORMOCHROMIC	Predominantly: Normocytic/Normochromic; Moderate: Microcytosis, Hypochromia; Mild: Anisocytosis, Macrocytosis
Diagnosis	3	Acute Leukmeia MORPHOLOGY FAVORS ACUTE PROMYELOCYTIC LEUKEMIA	AML with Monocytic Differentiation

COMBINED DATA VALUES OF TOTAL PARTICIPANTS

Test parameters	S.No.	Total participants covered in the current dist. 156--G	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	260	257	79.38	90.27	7.39	3.89	13.23	5.84
RBC x10⁶/µl	1	260	260	87.69	86.15	5.77	3.46	6.54	10.39
Hb g/dl	1	260	260	87.31	89.23	6.92	3.85	5.77	6.92
HCT%	1	260	258	93.02	87.98	3.49	3.49	3.49	8.53
MCV-fl	1	260	258	95.35	91.09	3.88	4.26	0.77	4.65
MCH-Pq	1	260	258	87.98	93.02	5.43	3.49	6.59	3.49
MCHC-q/dl	1	260	258	94.19	89.53	3.88	2.71	1.93	7.76
Plt. x10³/µl	1	260	258	90.31	92.25	6.59	3.88	3.1	3.87
ReticCount%	2	260	246	95.53	90.24	2.44	8.54	2.03	1.22
PS Assessment	3	260	244	Satisfactory :95.01%, Borderline Sat. :1.15%, Unsatisfactory :3.84%					

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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