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. : 3251 **Distribution No.:** 156-I **Month/Year:** June/2022

Instrument ID: MINDARY BC 3000 PLUS (RJ34114645)

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: 29-08-2022[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	5.9	5.7	11.6	10.88	0.1010	**0.43**	0.2	0.1	0.0120	**0.86**
RBC x10^6/µl	1	4.63	4.61	9.24	8.86	0.0140	**1.60**	0.02	0.04	0.0040	**-0.54**
Hb g/dl	1	11.8	11.6	23.4	25.4	0.0420	**-3.00**	0.2	0.1	0.0110	**1.35**
HCT%	1	42.7	42	84.7	80.35	0.2230	**1.09**	0.7	0.4	0.0360	**0.85**
MCV-fl	1	92.3	91.3	183.6	182.5	0.3910	**0.16**	1	0.3	0.0370	**1.40**
MCH-Pg	1	25.4	25.1	50.5	57.35	0.1040	**-4.25**	0.3	0.2	0.0230	**0.45**
MCHC-g/dl	1	27.6	27.6	55.2	62.9	0.1840	**-2.06**	0	0.3	0.0220	**-1.35**
Plt. x10^3/µl	1	166	165	331	418.5	2.67	**-1.84**	1	5	0.52	**-0.67**
Retic %	2	1	0.5	1.5	10.4	0.40	**-1.14**	0.5	0.5	0.05	**0.00**

P.S . Assesment

		YOUR REPORT	CONSENSUS REPORT
DLC%	3	Nrbcs=3 , Poly=24 L=10, E=3, Mono/Promono=6 , B1=8 P.M.=12, Mye=16, Meta=15, Other=NIL	Blast: 26-64, Poly: 6-19, Lympho: 8-15, mono:2-20 , Myelo:0-7 , Meta: 0-7, promyelo: 0-6, Eosino:0-1
RBC Morphology	3	Normocytic,Normochromic,Mild Microcytic,Mild Hypochromic	Predominantly: Normocytic/ Normochromic, Moderate: Anisocytosis, Microcytic
Diagnosis	3	Chronic Myeloid Leukaemia	Acute Leukemia (AL)

COMBINED DATA VALUES OF TOTAL PARTICIPANTS

Test parameters	S.No.	Total participants covered in the current dist. 156--I	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	138	138	87.68	83.33	5.8	2.9	6.52	13.77
RBC $x10^6$/µl	1	138	138	87.68	92.75	7.25	4.35	5.07	2.9
Hb g/dl	1	138	138	92.03	88.41	5.8	5.8	2.17	5.79
HCT%	1	138	138	89.86	90.58	7.25	5.8	2.89	3.62
MCV-fl	1	138	138	93.48	94.2	4.35	1.45	2.17	4.35
MCH-Pg	1	138	138	86.23	90.58	10.87	5.8	2.9	3.62
MCHC-g/dl	1	138	138	93.48	90.58	5.07	2.9	1.45	6.52
Plt. $x10^3$/µl	1	138	138	93.48	92.03	4.35	4.35	2.17	3.62
ReticCount%	2	138	115	96.52	89.57	0.00	6.96	3.48	3.47
PS Assessment	3	138	126	Satisfactory :91.31%, Borderline Sat. :0.72%, Unsatisfactory :7.97%					

*Comments:

1). Among Lab (EQA) : CBC result for MCH unacceptable, may be due to random/human error.PS Diagnosis wrongly reported, remaining 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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