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

NABL Certificate No. PC - 1002

Duration of stability testing - minimum upto 8 days at ambient temp. after dispatch of specimens

EQAP CODE No. : 2324 **Distribution No.:** 149-F **Month/Year:** December/2019

Instrument ID: Medonic M

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: 09-03-2020[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	5.7	5.6	11.3	11.63	0.0270	-0.40	0.1	0.1	0.0080	0.00
RBC x10^6/µl	1	4.06	4.01	8.07	8.06	0.0070	0.05	0.05	0.04	0.0020	0.22
Hb g/dl	1	11	11	22	22.2	0.0200	-0.30	0	0.1	0.0070	-0.67
HCT%	1	33.1	32.7	65.8	66.8	0.1410	-0.22	0.4	0.3	0.0210	0.27
MCV-fl	1	81.7	81.4	163.1	166.25	0.3130	-0.28	0.3	0.2	0.0200	0.22
MCH-Pg	1	27.41	27.1	54.51	55	0.0540	-0.33	0.31	0.2	0.0100	0.49
MCHC-g/dl	1	33.6	33.1	66.7	66.7	0.1380	0.00	0.5	0.3	0.0190	0.54
Plt. x10^3/µl	1	163	160	323	340	0.92	-0.63	3	6	0.32	-0.51
Retic %	2	8	7.8	15.8	7.5	0.25	2.24	0.2	0.4	0.02	-0.90

P.S . Assesment

		YOUR REPORT	CONSENSUS REPORT
DLC%	3	Nrbcs=3 , Poly=17 L=8, E=3, Mono/Promono=0 , B1=0 P.M.=8, Mye=4, Meta=18, Other=Baso-2% ,Matured Neu-28% ,Myelocyte-12% ,plt-Normal in number	Poly: 50-60, Lymph: 2-6, nRBC/Eo/Mono/Blast/Pro: 0-5, My: 10-20, Meta: 10-15
RBC Morphology	3	Showing mild anisopoikilocytosis,Normocytic normochromic and microcytic hyperchromic cells seen .Few NRBC seen (2-3/100 WBC).	Predominantly: Normocytic Normochromic. Moderate: Micro. Mild: Hypo, Aniso.
Diagnosis	3	Chronic myeloid leukemia (CML) chronic phase	Chronic Myeloid Leukemia (Chronic Phase) : CML-CP

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COMBINED DATA VALUES OF TOTAL PARTICIPANTS

Test parameters	S.No.	Total participants covered in the current dist.	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	450	366	90.98	84.97	3.28	6.83	5.19	7.1
RBC x10^6/µl	1	450	366	89.89	88.25	5.46	5.19	4.1	6.01
Hb g/dl	1	450	366	92.08	86.89	4.92	3.83	2.46	8.74
HCT%	1	450	366	95.08	90.16	3.01	5.74	1.37	3.55
MCV-fl	1	450	366	96.99	95.63	1.37	1.64	1.09	2.19
MCH-Pg	1	450	366	87.7	89.62	7.65	5.19	4.1	4.64
MCHC-g/dl	1	450	366	97.54	88.25	1.64	4.92	0.27	6.28
Plt. x10^3/µl	1	450	366	89.34	91.53	7.92	4.64	1.91	3.01
ReticCount%	2	450	301	94.02	74.75	2.99	20.6	2.99	7.64
PS Assessment	3	450	349	Acceptable:96.2%,Warning Signal:3.2%,Unacceptable :0.6%					

***Comments:**

1). Among Lab (EQA) : PS partially correct, 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.

Report authorized by,

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PT Co-ordinator: ISHTM-AIIMS-EQAP

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