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. : 3055 **Distribution No.:** 149-H **Month/Year:** November/2019

Instrument ID: 11449

Name & Contact No. of PT Co-ordinator: Dr. Renu Saxena (Prof & Head), Hematology, AIIMS, Delhi, Tel: 9013085730 , E-Mail : accuracy2000@gmail.com

Date of issue & status of the report: 11-12-2019[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	6.87	6.61	13.48	11.25	0.1350	**1.44**	0.26	0.11	0.0210	**1.01**
RBC x10^6/µl	1	5.04	5.02	10.06	10.05	0.0210	**0.04**	0.02	0.04	0.0060	**-0.28**
Hb g/dl	1	12.4	12.4	24.8	25.4	0.0570	**-0.90**	0	0.1	0.0160	**-0.67**
HCT%	1	39.5	39.3	78.8	78.85	0.3710	**-0.01**	0.2	0.3	0.0560	**-0.17**
MCV-fl	1	78.4	78.3	156.7	156.85	0.6470	**-0.02**	0.1	0.2	0.0410	**-0.34**
MCH-Pg	1	24.7	24.6	49.3	50.6	0.1190	**-0.92**	0.1	0.2	0.0280	**-0.45**
MCHC-g/dl	1	31.6	31.4	63	64	0.3040	**-0.28**	0.2	0.3	0.0440	**-0.34**
Plt. x10^3/µl	1	378	339	717	735	5.55	**-0.26**	39	9	1.15	**2.45**
Retic %	2	15	13	28	6.5	0.39	**2.32**	2	0.3	48.00	**2.55**

P.S . Assesment

YOUR REPORT			CONSENSUS REPORT
DLC%	3	Nrbcs=3/100 Nucleated cells , Poly=4% L=1%, E=1%, Mono/Promono=1% , B1=93% Some of them have irregular contour P.M.=-, Mye=-, Meta=-, Other=-	Blast: 80-90, Poly: 5-7, Lymph: 2-7, Eo/Mono/Pro/My/Meta: 0-4
RBC Morphology	3	Predominantly Normocytic and Normochromic,occasional macrocytes seen.	Predominantly: Normocytic Normochromic. Moderate: Anisocytosis. Mild: Microcytic
Diagnosis	3	Acute leukemia,probably Mo	Acute Leukemia (myeloid lineage)

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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	100	82	80.49	87.8	10.98	4.88	12.2	10.98
RBC x10^6/µl	1	100	82	84.15	91.46	6.1	0	13.41	8.54
Hb g/dl	1	100	82	87.8	86.59	4.88	7.32	7.32	9.76
HCT%	1	100	82	90.24	89.02	3.66	0	6.1	13.41
MCV-fl	1	100	82	87.8	91.46	2.44	1.22	9.76	10.98
MCH-Pg	1	100	82	84.15	87.8	7.32	3.66	10.98	10.98
MCHC-g/dl	1	100	82	86.59	90.24	6.1	1.22	7.32	9.76
Plt. x10^3/µl	1	100	82	87.8	89.02	4.88	6.1	10.98	8.54
ReticCount%	2	100	62	100	93.55	4.84	8.06	3.23	6.45
PS Assessment	3	100	68	Acceptable:93.5%,Warning Signal:3.9%,Unacceptable :2.6%					

***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.

Report authorized by,

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PT Co-ordinator: ISHTM-AIIMS-EQAP

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