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. : 3027 **Distribution No.:** 148-G **Month/Year:** September/2019

Instrument ID: HORIBA YUMIZEN 500

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: 19-11-2019[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	1.47	1.2	2.67	9.65	0.0570	**-5.00**	0.27	0.1	0.0070	**1.64**
RBC x10^6/µl	1	4.9	4.9	9.8	9.72	0.0110	**0.29**	0	0.04	0.0030	**-0.77**
Hb g/dl	1	11.2	11.1	22.3	22.6	0.0290	**-0.45**	0.1	0.1	0.0070	**0.00**
HCT%	1	41.6	41	82.6	76.6	0.2280	**1.08**	0.6	0.3	0.0260	**0.81**
MCV-fl	1	85.2	85	170.2	157.9	0.4100	**1.27**	0.2	0.2	0.0190	**0.00**
MCH-Pg	1	22.9	22.4	45.3	46.5	0.0570	**-0.90**	0.5	0.2	0.0140	**2.02**
MCHC-g/dl	1	26.9	26.4	53.3	59.1	0.1830	**-1.35**	0.5	0.2	0.0170	**1.01**
Plt. x10^3/µl	1	207	195	402	435	2.65	**-0.50**	12	6	0.41	**1.01**
Retic %	2	4.5	4.2	8.7	10	0.18	**-0.27**	0.3	0.4	0.03	**-0.19**

P.S . Assesment

YOUR REPORT			CONSENSUS REPORT
DLC%	3	Nrbcs=NIL , Poly=14 L=80, E=01, Mono/Promono=10 , B1=00 P.M.=03, Mye=01, Meta=00, Other=	Lymph: 85-95, nRBC/Poly/Eo/Mono/Blast/Pro/Mye/Meta: 0-5, Lymphocytes morphology resembling a lot with blasts morphology.
RBC Morphology	3	NORMAL	Predominantly: Normocytic Normochromic, Moderate: Microcytic, Mild: Hypochromic.
Diagnosis	3		Chronic Lymphocytic Leukemia [CLL] / Acute Leukemia. Adv: Immunophenotyping by flow cytometry.

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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	350	262	86.64	84.35	5.73	5.73	6.87	8.02
RBC x10^6/µl	1	350	262	85.88	91.98	6.11	2.29	7.63	4.96
Hb g/dl	1	350	262	86.64	89.69	3.44	5.34	9.54	4.58
HCT%	1	350	262	91.6	88.93	3.44	4.2	4.58	6.49
MCV-fl	1	350	262	91.22	91.22	5.34	1.91	3.05	6.49
MCH-Pg	1	350	262	86.64	82.82	6.11	9.16	6.87	6.87
MCHC-g/dl	1	350	262	92.37	92.37	4.2	1.91	3.05	5.34
Plt. x10^3/µl	1	350	262	93.13	88.17	4.2	5.73	1.91	5.34
ReticCount%	2	350	239	92.89	94.98	5.02	3.77	2.51	1.67
PS Assessment	3	350	238	Acceptable:84.3%,Warning Signal:6.1%,Unacceptable :9.6%					

***Comments:**

1). Among Lab (EQA) : PS Diagnosis not 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.

Report authorized by,

Dr. R. Saxena
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PT Co-ordinator: ISHTM-AIIMS-EQAP

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