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. : 3510 **Distribution No.:** 151-J **Month/Year:** December/2020

Instrument ID: Mindray BC 5000 Sr.No: SS-65002711

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

Date of issue & status of the report: 11-01-2021[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	4.18	4.09	8.27	8.4	0.0310	**-0.20**	0.09	0.1	0.0110	**-0.08**
RBC x10^6/µl	1	4.74	4.71	9.45	10.21	0.0160	**-1.92**	0.03	0.04	0.0350	**-0.17**
Hb g/dl	1	9.3	9.3	18.6	19	0.0310	**-0.67**	0	0.1	0.0080	**-1.35**
HCT%	1	28.6	28.4	57	60.2	0.1690	**-0.83**	0.2	0.3	0.0330	**-0.22**
MCV-fl	1	60.4	60.3	120.7	118.4	0.2120	**0.49**	0.1	0.3	0.0270	**-0.45**
MCH-Pg	1	19.8	19.7	39.5	37.4	0.0680	**1.22**	0.1	0.2	0.0120	**-0.67**
MCHC-g/dl	1	32.8	32.6	65.4	63.5	0.1590	**0.54**	0.2	0.3	0.0260	**-0.22**
Plt. x10^3/µl	1	185	175	360	417.5	2.09	**-1.17**	10	8.5	0.65	**0.16**
Retic %	2	8	6	14	17.4	0.41	**-0.36**	2	0.6	0.05	**2.70**

P.S . Assesment

	YOUR REPORT		CONSENSUS REPORT
DLC%	3	Nrbcs=0 , Poly=3 L=0, E=0, Mono/Promono=0 , B1=95 P.M.=0, Mye=1, Meta=1, Other=	Blasts: 70-80, Lymph: 5-15, Poly: 2-5, nRBC/Eo/Mono/Pro/My/Meta: 0-5
RBC Morphology	3	Hypochromic	Predominantly: Normocytic Normochromic, Moderate: Anisocytosis, Mild: Microcytic.
Diagnosis	3	Chronic Lymphocytic Leukemia	Acute Leukemia (Lymphoblastic).

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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	224	82.59	80.8	3.13	4.02	13.84	14.29
RBC x10^6/µl	1	350	224	88.39	89.29	4.02	3.57	6.7	6.25
Hb g/dl	1	350	224	82.59	91.07	6.7	3.57	10.27	4.91
HCT%	1	350	224	89.29	89.73	5.8	2.23	4.02	7.14
MCV-fl	1	350	224	87.05	90.18	6.7	4.02	5.36	4.91
MCH-Pg	1	350	224	86.61	85.27	7.14	4.46	5.36	9.38
MCHC-g/dl	1	350	224	88.39	87.05	8.48	6.25	2.23	5.8
Plt. x10^3/µl	1	350	224	93.3	93.3	3.57	3.13	2.23	3.13
ReticCount%	2	350	199	93.97	81.91	4.52	16.08	1.51	4.02
PS Assessment	3	350	209	Acceptable:81.9%,Warning Signal:8.6%,Unacceptable :9.5%					

***Comments:**

1). Among Lab (EQA) : Wrongly Reported PS ,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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