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

Durationofstabilitytesting-minimumupto8daysatambienttemp.afterdispatchofspecimens

EQAP CODE No.:2781 **DistributionNo.:**154-G **Month/Year:**September/2021

Instrument ID: TH-96006590

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 x10³/µl	1	4.1	3.9	8	7.7	0.0250	**0.54**	0.2	0.1	0.0720	**1.04**
RBC x10⁶/µl	1	3.67	3.63	7.3	7.51	0.0880	**-1.08**	0.04	0.04	0.0020	**0.00**
Hb g/dl	1	11.8	11.8	23.6	22.7	0.0250	**1.73**	0	0.1	0.0090	**-1.35**
HCT%	1	32.1	31.7	63.8	67.5	0.1390	**-1.08**	0.4	0.3	0.0250	**0.27**
MCV-fl	1	87.5	87.3	174.8	180.55	0.3090	**-0.64**	0.2	0.3	0.0230	**-0.34**
MCH-Pg	1	32.5	32.2	64.7	60.5	0.0780	**2.58**	0.3	0.3	0.0200	**0.00**
MCHC-g/dl	1	37.2	36.8	74	66.5	0.1400	**2.11**	0.4	0.3	0.0230	**0.34**
Plt. x10³/µl	1	174	159	333	301	1.13	**1.23**	15	5	0.41	**2.25**
Retic %	2	13.3	12.5	25.8	30	0.78	**-0.21**	0.8	1	0.06	**-0.18**

P.S . Assesment

		YOUR REPORT	CONSENSUS REPORT
DLC%	3	Nrbcs=2 , Poly=5 L=3, E=1, Mono/Promono=1 , B1=90 P.M.=0, Mye=0, Meta=0, Other=	Blasts: 65-85, Lymph: 2-6, nRBC/Poly/Eo/Mono: 0-5, Pro: 0-10, Myelo/Meta: 0-5.
RBC Morphology	3	PREDOMINANTLY MICROCYTIC HYPOCHROMIC RBCs SEEN WITH FEW NORMOCYTIC NORMOCHROMIC RBCs, FEW TEAR DROP CELLS AND OCCASIONAL nRBCs. MILD ANISOCYTOSIS.	Predominantly:Normocytic,Normochromic.Moderate:Microcytic.Mild Anisocytosis.
Diagnosis	3	ACUTE LEUKEMIA ADVICE: IMMUNOPHENOTYPING FOR CONFIRMATION AND LINEAGE IDENTIFICATION.	Acute Leukemia (Myeloid Lineage)

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	243	84.77	86.42	3.29	6.17	12.35	6.58
RBC x10^6/µl	1	350	243	87.24	90.95	6.58	4.12	6.58	4.53
Hb g/dl	1	350	243	84.77	88.07	6.58	0.41	9.05	7.82
HCT%	1	350	243	94.24	88.48	3.7	4.53	2.47	6.58
MCV-fl	1	350	243	97.53	82.72	2.06	9.88	0.82	7.82
MCH-Pg	1	350	243	82.72	88.89	11.52	4.53	6.17	6.58
MCHC-g/dl	1	350	243	95.47	87.24	3.29	5.76	1.65	7
Plt. x10^3/µl	1	350	243	90.12	85.6	7.41	6.58	2.88	8.23
ReticCount%	2	350	220	96.36	93.18	2.73	3.18	1.36	4.09
PS Assessment	3	350	224	Acceptable:88.4%,Warning Signal:7.3%,Unacceptable :4.3%					

***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,

Dr. Seema Tyagi (Prof.)
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