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. : 1079 **Distribution No.:** 152-C **Month/Year:** January/2021

Instrument ID: HORIBA ABS60 MICRO 306ESOH05900

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: 25-02-2021[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	4.5	4.45	8.95	7.2	0.0350	**1.61**	0.05	0.1	0.0060	**-0.42**
RBC x10^6/µl	1	3.01	3	6.01	6.63	0.0070	**-3.64**	0.01	0.03	0.0020	**-0.54**
Hb g/dl	1	10.6	10.6	21.2	22.7	0.0190	**-2.89**	0	0.1	0.0070	**-1.35**
HCT%	1	32.4	32.2	64.6	71.4	0.1540	**-1.32**	0.2	0.3	0.0230	**-0.23**
MCV-fl	1	107	106	213	213.95	0.3740	**-0.07**	1	0.3	0.0270	**1.35**
MCH-Pg	1	35.2	35.1	70.3	68.5	0.0680	**0.97**	0.1	0.3	0.0200	**-0.54**
MCHC-g/dl	1	32.8	32.8	65.6	63.4	0.1230	**0.50**	0	0.3	0.0190	**-0.81**
Plt. x10^3/µl	1	109	109	218	288.5	1.12	**-2.22**	0	4	0.25	**-1.08**
Retic %	2	1.88	1.84	3.72	13	0.20	**-1.59**	0.04	0.5	0.02	**-1.24**

P.S . Assesment

		YOUR REPORT	CONSENSUS REPORT
DLC%	3	Nrbcs=NIL , Poly=NIL L=96, E=NIL, Mono/Promono=03 , B1=NIL P.M.=NIL, Mye=NIL, Meta=NIL, Other=PLATELET AGGREGATION IN THE TAIL	Lympho: 75-90, Poly: 5-15, Mono: 1-5, nRBC/Blast/Eo/Myelo/Meta: 0-1
RBC Morphology	3	NORMOCYTIC NORMOCHROMIC, MILD AGGREGATION	Predominantly: Normocytic/Normochromic, Moderate: Anisocytosis, Mild: Microcytosis, Hypo.
Diagnosis	3	SMALL CELL LYMPHOPROLIFERATIVE DISORDER- CLL	Chronic Lymphocytic Leukemia (CLL)

EQAP Code No.: 1079 *Distribution No.: 152-C* *Month/Year: January/2021* *Instrument ID: HORIBA ABS60 MICRO 306ESOH05900*

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	333	344	91.57	85.76	4.94	6.4	2.91	6.1
RBC x10^6/µl	1	333	344	87.79	90.7	6.4	4.36	5.23	3.2
Hb g/dl	1	333	344	87.21	88.37	7.56	5.23	4.36	5.52
HCT%	1	333	344	96.51	89.53	2.33	4.07	0.58	4.65
MCV-fl	1	333	344	98.55	93.02	0.58	3.2	0.29	3.2
MCH-Pg	1	333	344	88.66	88.95	7.27	6.4	3.49	3.2
MCHC-g/dl	1	333	344	96.8	91.28	2.33	3.49	0.29	4.07
Plt. x10^3/µl	1	333	344	91.28	92.73	6.1	4.94	2.03	1.74
ReticCount%	2	333	329	94.22	90.88	3.65	1.22	2.43	8.21
PS Assessment	3	333	339	Acceptable:92.5,Warning Signal:2.7,Unacceptable :4.8					

***Comments:**

1). Among Lab (EQA) : CBC result for *RBC* unacceptable, may be due to random/human error

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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