



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



Duration of stability testing - minimum upto 8 days at ambient temp. after dispatch of specimens

EQAP CODE No. : 1746

Distribution No.: 156-D

Month/Year: May/2022

Instrument ID: 902YOXH02113

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: 22-07-2022[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	5.3	5.28	10.58	19.21	0.0960	-3.25	0.02	0.16	0.0110	-0.88
RBC x10 ⁶ /µl	1	5.75	5.7	11.45	11.28	0.0110	0.53	0.05	0.04	0.0030	0.22
Hb g/dl	1	13.5	13.4	26.9	28.05	0.0290	-1.55	0.1	0.1	0.0070	0.00
HCT%	1	52.3	52.1	104.4	94.6	0.2270	1.47	0.2	0.4	0.0240	-0.54
MCV-fl	1	91.8	91.5	183.3	166.9	0.3470	1.63	0.3	0.2	0.0170	0.34
MCH-Pg	1	23.8	23.1	46.9	49.5	0.0650	-1.46	0.7	0.2	0.0120	3.37
MCHC-g/dl	1	26	25.7	51.7	59.1	0.1500	-1.80	0.3	0.2	0.0150	0.34
Plt. x10 ³ /µl	1	230	215	445	617	4.34	-1.25	15	8	0.45	0.94
Retic %	2	10	9	19	16.8	0.27	0.30	1	0.5	0.02	0.84

P.S . Assesment

YOUR REPORT			CONSENSUS REPORT		
DLC%	3	Nrbcs=03 , Poly=34 L=2, E=08, Mono/Promono=00 , B1=02 P.M.=10, Mye=23, Meta=18, Other=	Poly: 35 - 48, Myelo: 17 - 33, Meta: 10 - 17, Promyelo: 3-7, nRBC/Lympho /Blast/Eos/Baso/Mono: 0 - 5		
RBC	3	Macrocytes tear drop cells anisocytosis	Predominantly: Normocytic/Normochromic; Moderate Anisocytosis		

COMBINED DATA VALUES OF TOTAL PARTICIPANTS

Parameters	S.No.	Total participants covered in the current dist. 156--D	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
BC x10 ³ /µl	1	354	347	81.56	87.32	6.63	3.75	11.81	8.93
BC x10 ⁶ /µl	1	354	354	88.42	87.85	5.93	4.24	5.65	7.91
Hb g/dl	1	354	354	83.62	88.7	5.37	5.37	11.01	5.93
HCT%	1	354	348	85.63	88.79	6.03	4.6	8.34	6.61
MCV-fl	1	354	348	83.33	93.39	5.46	4.02	11.21	2.59
MCH-Pg	1	354	348	86.21	92.82	3.74	3.45	10.05	3.73
ICHG-g/dl	1	354	348	87.07	90.23	8.33	3.16	4.6	6.61
lt. x10 ³ /µl	1	354	348	87.93	91.38	4.89	4.89	7.18	3.73
ticCount%	2	354	330	90.91	88.48	6.97	9.09	2.12	2.43
Assessment	3	354	334	Satisfactory :97.73%, Borderline Sat. :0.56%, Unsatisfactory :1.70%					

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.

Note 10: Reports are kept confidential.

Report authorized by,



Dr. Seema Tyagi (Prof.)

PT Co-ordinator: ISHTM-AIIMS-EQAP

Department of Hematology, AIIMS, New Delhi

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