



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. : 1717

Distribution No.: 155-C

Month/Year: February/2022

Instrument ID: XP-100 (S.N0. B6502)

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: 21-04-2022[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	8.6	8.5	17.1	17.18	0.0790	-0.04	0.1	0.13	0.0100	-0.20
RBC x10 ⁶ /µl	1	4.34	4.29	8.63	8.12	0.0390	0.42	0.05	0.06	0.0040	-0.17
Hb g/dl	1	14.1	13.9	28	27.6	0.0210	0.72	0.2	0.1	0.0080	1.35
HCT%	1	39.5	39	78.5	80.3	0.2460	-0.25	0.5	0.5	0.0260	0.00
MCV-fl	1	91	90.9	181.9	199.5	0.6050	-0.97	0.1	0.5	0.0360	-0.67
MCH-Pg	1	32.5	32.4	64.9	68	0.3170	-0.31	0.1	0.5	0.0280	-0.90
MCHC-g/dl	1	35.7	35.6	71.3	68.7	0.2090	0.45	0.1	0.3	0.0240	-0.45
Plt. x10 ³ /µl	1	497	485	982	876	3.50	1.11	12	10	0.66	0.21
Retic %	2	3.5	2.5	6	8	0.14	-0.53	1	0.3	0.02	2.36

P.S . Assesment

YOUR REPORT		CONSENSUS REPORT
DLC%	3	Nrbcs=58 , Poly=64 L=28, E=02, Mono/Promono=06 , B1=00 P.M.=00, Mye=00, Meta=00, Other=00
RBC Morphology	3	MACROCYTES, MACROOVALOCYTES, FEW MICROCYTES, TEAR DROP CELLS, SPHEROCYTES, SCHISTOCYTES, MODERATE ANISOCYTOSIS, MILD HYPOCHROMIA
Diagnosis	3	HEMOLYTIC ANEMIA
		Lympho: 35-55, Poly: 35-46, Mono: 2-5, nRBC/Blast/Eosino/Myelo/Meta: 1-2
		Normocytic/Normochromic; Moderate: Anisocytosis, Microcytosis, Hypochromia; Mild: Macrocytosis, Poikilocytosis
		Chronic lymphoproliferative disorder (CLPD)

COMBINED DATA VALUES OF TOTAL PARTICIPANTS

Test parameters	S.No.	Total participants covered in the current dist. 155--C	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 x10³/µl	1	320	319	89.66	89.97	6.9	5.96	3.44	4.07
RBC x10⁶/µl	1	320	320	97.81	90.63	1.56	4.06	0.63	5.31
Hb g/dl	1	320	320	90.94	90.94	3.75	2.81	5.31	6.25
HCT%	1	320	319	92.48	89.97	6.27	6.58	1.25	3.45
MCV-fl	1	320	319	96.87	89.97	2.51	5.64	0.62	4.39
MCH-Pg	1	320	319	94.98	90.91	4.39	4.7	0.63	4.39
MCHC-g/dl	1	320	319	90.6	91.22	6.9	3.76	2.5	5.02
Plt. x10³/µl	1	320	319	92.48	90.91	5.64	3.76	1.88	5.33
ReticCount%	2	320	303	93.4	94.72	4.95	2.64	1.65	2.64
PS Assessment	3	320	286	Satisfactory :56.57%, Borderline Sat. :32.18%, Unsatisfactory :11.25%					

***Comments:**

1). Among Lab (EQA) : PS Diagnosis wrongly 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 $> \pm 3$: 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 $> \pm 3$ 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

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