



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. : 5153

Distribution No.: 157-M

Month/Year: October/2022

Instrument ID: Merilyzer CelQuant 5 (Sr no. 201203)

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: 24-11-2022[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	5.68	5.58	11.26	11.2	0.0290	0.07	0.1	0.1	0.0060	0.00
RBC x10 ⁶ /µl	1	3.89	3.85	7.74	7.56	0.0080	0.86	0.04	0.04	0.0030	0.00
Hb g/dl	1	12	11.9	23.9	23.7	0.0270	0.30	0.1	0.1	0.0080	0.00
HCT%	1	37.1	36.7	73.8	73.3	0.1660	0.10	0.4	0.4	0.0250	0.00
MCV-fl	1	95.4	95.3	190.7	194.55	0.3960	-0.33	0.1	0.3	0.0210	-0.63
MCH-Pg	1	30.9	30.8	61.7	62.6	0.0840	-0.39	0.1	0.3	0.0200	-0.54
MCHC-g/dl	1	32.4	32.4	64.8	64.5	0.1500	0.07	0	0.3	0.0220	-0.81
Plt. x10 ³ /µl	1	137	136	273	281.5	1.19	-0.26	1	4	0.28	-0.67
Retic %	2	11	10	21	10.5	0.23	1.57	1	0.5	0.03	0.84

P.S . Assesment

YOUR REPORT		CONSENSUS REPORT
DLC%	3	Nrbcs=4 , Poly=76 L=04, E=02, Mono/Promono=01 , B1=0 P.M.=01, Mye=10, Meta=06, Other=
RBC Morphology	3	Poly: 60 - 77, Myelo: 5 - 12, Meta: 5 - 10, Lympho: 3 - 7, Eos: 1- 3, nRBC/ Baso/ Promyelo, Blast Mono: 0 - 5
Diagnosis	3	Chronic Myeloid Leukemia

COMBINED DATA VALUES OF TOTAL PARTICIPANTS

Test parameters	S.No.	Total participants covered in the current dist. 157--M	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	333	332	83.13	88.55	6.63	5.12	10.24	6.33
RBC x10⁶/µl	1	333	333	88.89	88.89	5.11	5.71	6	5.4
Hb g/dl	1	333	333	86.49	85.89	6.01	6.91	7.5	7.2
HCT%	1	333	331	93.96	91.54	4.23	3.32	1.81	5.14
MCV-fl	1	333	332	95.48	91.27	3.01	2.41	1.51	6.32
MCH-Pg	1	333	332	90.36	85.54	5.72	7.83	3.92	6.63
MCHC-g/dl	1	333	332	93.67	91.87	3.92	2.11	2.41	6.02
Plt. x10³/µl	1	333	332	91.57	92.17	5.72	4.22	2.71	3.61
ReticCount%	2	333	296	88.18	88.18	7.43	7.09	4.39	4.73
PS Assessment	3	333	269	Satisfactory :87.66%, Borderline Sat. :11.14%, Unsatisfactory :1.20%					

***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 $> \pm 3$: 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

Department of Hematology, AIIMS, New Delhi

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