

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. : 4317

Distribution No.: 156-K

Month/Year: July/2022

Instrument ID: 705ES0H11486

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: 25-09-2022[Final].

CBC and Retic Assessment

				Among Lab (Accuracy Testing)				Within Lab (Precision Testing)				
Test Parameters	S.No.	Your Result 1		Your Results Sum of 2 Value	Consensus result sum of 2 values (Assigned Value)	Uncertainty of Assigned Values	Z Score	Deculto		Uncertainty of Assigned Values	Z Score	
WBC x10³/µl	1	5.6	5.5	11.1	9.2	0.0610	1.22	0.1	0.1	0.0110	0.00	
RBC x10 ⁶ /µl	1	4.38	4.29	8.67	8.88	0.0110	-0.79	0.09	0.05	0.0030	0.77	
Hb g/dl	1	13.6	13.2	26.8	27	0.0370	- 0.2 1	0.4	0.1	0.0100	2.02	
НСТ%	1	45.4	44.1	89.5	83.2	0.2210	1.17	1.3	0.5	0.0370	1.54	
MCV-fl	1	104	103	207	186.65	0.3960	2.26	1	0.3	0.0270	1.57	
MCH-Pg	1	31	30.7	61.7	60.9	0.0870	0.41	0.3	0.3	0.0190	0.00	
MCHC-g/dl	1	29.9	29.9	59.8	65.15	0.1890	-1.22	0	0.3	0.0210	-0.95	
Plt. x10³/μl	1	174	149	323	211.5	1.74	2.40	25	4	0.32	4.72	
Retic %	2	3.7	3.5	7.2	3.8	0.10	1.36	0.2	0.2	0.01	0.00	

P.S . Assesment

YOUR REPORT			CONSENSUS REPORT				
DLC%	3		Poly: 35 - 48, Myelo: 14 - 26, Meta: 8 - 15, Promyelo: 3-7, nRBC/ Lympho /Blast/Eos/Baso/Mono: 0 - 5				
RBC Morphology	3		Predominantly: Normocytic/Normochromic; Moderate: Anisocytosis, hypochromia, Microcytosis; Mild: Macrocytosis, Poikilocytosis				
Diagnosis	3	MYELOPROLIFERATIVE NEOPLASM, MOST PROBABLY CHRONIC MYELOID LEUKEMIA-CHRONIC PHASE (CML-CP)	Chronic Myeloid Leukemia (Chronic Phase)				

Page 2 of 2

COMBINED DATA VALUES OF TOTAL PARTICIPANTS

Test never store	S No	Total participants covered in the	Total No. responded	% of Labs with Z Score 0-2		% of Labs with Z Score 2-3		% of Labs with Z Score >3	
Test parameters	5.NU.	covered in the current dist. 156K		Among labs	Within lab	Among labs	Within lab	Among labs	Within lab
WBC x10 ³ /µl	1	252	248	<mark>84</mark> .27	87.1	6.85	2.42	8.88	10.48
RBC x10 ⁶ /µl	1	252	252	86.11	92.46	6.75	1.59	7.14	5.95
Hb g/dl	1	252	252	90.87	82.54	1.98	7.94	7.15	9.52
HCT%	1	252	2 <mark>48</mark>	94.35	91.94	2.42	2.82	3.23	5.24
MCV-fl	1	252	248	89.11	94.35	6.85	2.42	4.04	3.23
MCH-Pg	1	252	248	87.1	<mark>91</mark> .53	6.05	2.82	6.85	5.65
MCHC-g/dl	1	252	248	91.13	91.94	4.44	2.42	4.43	5.64
Plt. x10 ³ /µl	1	252	248	92.34	89.11	3.63	5.24	4.03	5.65
ReticCount%	2	252	214	93.46	89.72	4.67	7.48	1.87	2.80
PS Assessment	3	252	213	Satisfactory :93.65%, Borderline Sat. :4.76%, Unsatisfactory :1.58%					

*Comments:

1). Among Lab (EQA) : Results acceptable.

2). Within Lab (IQA) : Difference in the CBC measurement values for PLT unacceptable, may be due to random/human error.

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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