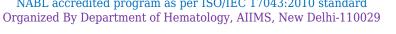
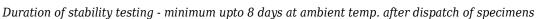
PC-1002



## **PROFICIENCY TESTING REPORT** *ISHTM-AIIMS EXTERNAL QUALITY ASSURANCE PROGRAMME* NABL accredited program as per ISO/IEC 17043:2010 standard





EQAP CODE No.: 534DistributionInstrument ID: DxH-800 BECKMAN COULTER (RBD45164)

Distribution No.: 157-B

Month/Year: July/2022

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: 16-10-2022[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	5.3	5.3	10.6	10.47	0.0280	0.19	0	0.1	0.0070	-0.79	
RBC x10 <sup>6</sup> /µl	1	4.31	4.29	8.6	8.75	0.0070	-0.75	0.02	0.04	0.0020	-0.54	
Hb g/dl	1	12.5	12.4	24.9	25.4	0.0200	-0.75	0.1	0.1	0.0070	0.00	
HCT%	1	39.4	39. <mark>3</mark>	78.7	78.2	0.1260	0.13	0.1	0.4	0.0230	-0.81	
MCV-fl	1	91.8	91.3	183.1	178.7	0.2390	0.60	0.5	0.3	0.0200	0.67	
MCH-Pg	1	29.1	28.9	58	58	0.0550	0.00	0.2	0.2	0.0110	0.00	
MCHC-g/dl	1	31.8	31.6	63.4	64.8	0.1120	-0.42	0.2	0.3	0.0200	-0.34	
Plt. x10³/μl	1	107	106	213	214	1.05	-0.03	1	4	0.26	-0.58	
Retic %	2	3.5	2.5	6	3.1	0.08	1.00	1	0.2	0.01	5.40	

## P.S . Assesment

		YOUR REPORT	CONSENSUS REPORT				
DLC%	3		Poly: 42 - 56, Myelo: 13 - 23, Meta: 8 - 17, Lympho: 4 - 8, Eos: 2 - 5, Promyelo: 1-5, nRBC/Blast/Baso/Mono: 0 - 5				
RBC Morphology	3		Predominantly: Normocytic/Normochromic; Moderate: Anisocytosis, hypochromia, Microcytosis; Mild: Macrocytosis, Poikilocytosis				
Diagnosis	3	CLL	Chronic Myeloid Leukemia (Chronic Phase)				

#### Page 2 of 2

### **COMBINED DATA VALUES OF TOTAL PARTICIPANTS**

Taskasana	C No	Total participants	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.NO.	covered in the current dist. 157B		Among labs	Within lab	Among labs	Within lab	Among labs	Within lab	
WBC x10 <sup>3</sup> /µl	1	373	366	<mark>83</mark> .61	91.53	7.92	3.28	8.47	5.19	
RBC x10 <sup>6</sup> /µl	1	373	373	85.25	87.4	5.9	4.56	8.85	8.04	
Hb g/dl	1	373	373	87.67	85.52	4.83	5.63	7.5	8.85	
HCT%	1	373	3 <mark>65</mark>	89.59	89.59	7.12	5.21	3.29	5.2	
MCV-fl	1	373	364	94.51	84.89	3.57	10.44	1.92	4.67	
MCH-Pg	1	373	364	87.09	<mark>73</mark> .35	6.87	18.41	6.04	8.24	
MCHC-g/dl	1	373	364	92.31	<mark>87.9</mark> 1	4.4	6.87	3.29	5.22	
Plt. x10³/µl	1	373	364	91.21	<u>93.13</u>	5.22	3.3	3.57	3.57	
ReticCount%	2	373	273	91.21	95.6	5.49	1.47	3.3	2.93	
PS Assessment	3	373	349	Satisfactory :90.89%, Borderline Sat. :6.97%, Unsatisfactory :2.14%						

#### \*Comments:

1). Among Lab (EQA) : PS Diagnosis wrongly reported, remaining results acceptable

2). Within Lab (IQA) : RETIC result is 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  $\pm 2$ : Acceptable, Z score  $\pm 2$  to  $\pm 3$ : Warning Signal, Z score >  $\pm 3$ : Unacceptable [As per ISO/IEC 13528:2015 standard]

**Note-4:** Z score value between "0 to  $\pm 2$ " are texted in green colour. Z score value between " $\pm 2$  to  $\pm 3$ " 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 guarterly 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,

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Dr. Seema Tyagi (Prof.) PT Co-ordinator: ISHTM-AIIMS-EQAP Department of Hematology, AIIMS, New Delhi

-----End Of Report-----