



**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. : 1433

Distribution No.: 155-C

Month/Year: February/2022

Instrument ID: CELL TECH 380 SN 665000215

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Date of issue &amp; 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 <sup>3</sup> /µl	1	8.47	7.9	16.37	17.18	0.0790	-0.38	0.57	0.13	0.0100	2.97
RBC x10 <sup>6</sup> /µl	1	5.78	4.71	10.49	8.12	0.0390	1.95	1.07	0.06	0.0040	17.03
Hb g/dl	1	13.9	13.8	27.7	27.6	0.0210	0.18	0.1	0.1	0.0080	0.00
HCT%	1	54.07	44.32	98.39	80.3	0.2460	2.54	9.75	0.5	0.0260	20.80
MCV-fl	1	94	94	188	199.5	0.6050	-0.64	0	0.5	0.0360	-0.84
MCH-Pg	1	29.5	23.9	53.4	68	0.3170	-1.44	5.6	0.5	0.0280	11.47
MCHC-g/dl	1	31.4	26.5	57.9	68.7	0.2090	-1.86	4.9	0.3	0.0240	10.34
Plt. x10 <sup>3</sup> /µl	1	630	600	1230	876	3.50	3.70	30	10	0.66	2.08
Retic %	2	1.7	1.6	3.3	8	0.14	-1.26	0.1	0.3	0.02	-0.67

### P.S . Assesment

YOUR REPORT		CONSENSUS REPORT
DLC%	3	Nrbcs=0 , Poly=0 L=69, E=2, Mono/Promono=2 , B1=0 P.M.=0, Mye=0, Meta=0, Other=
RBC Morphology	3	Lympho: 35-55, Poly: 35-46, Mono: 2-5, nRBC/Blast/Eosino/Myelo/Meta: 1-2
Diagnosis	3	normocytic normochromic to normocytic hypochromic.
		Normocytic/Normochromic; Moderate: Anisocytosis, Microcytosis, Hypochromia; Mild: Macrocytosis, Poikilocytosis
		LYMPHOPROLIFERATIVE DISORDER POSSIBLY CHRONIC LYMHOCYTIC LEUKAEMIA
		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
<b>WBC x10<sup>3</sup>/µl</b>	1	320	319	89.66	89.97	6.9	5.96	3.44	4.07
<b>RBC x10<sup>6</sup>/µl</b>	1	320	320	97.81	90.63	1.56	4.06	0.63	5.31
<b>Hb g/dl</b>	1	320	320	90.94	90.94	3.75	2.81	5.31	6.25
<b>HCT%</b>	1	320	319	92.48	89.97	6.27	6.58	1.25	3.45
<b>MCV-fl</b>	1	320	319	96.87	89.97	2.51	5.64	0.62	4.39
<b>MCH-Pg</b>	1	320	319	94.98	90.91	4.39	4.7	0.63	4.39
<b>MCHC-g/dl</b>	1	320	319	90.6	91.22	6.9	3.76	2.5	5.02
<b>Plt. x10<sup>3</sup>/µl</b>	1	320	319	92.48	90.91	5.64	3.76	1.88	5.33
<b>ReticCount%</b>	2	320	320	88.44	89.69	4.69	2.5	6.87	7.81
<b>PS Assessment</b>	3	320	286	Satisfactory :56.57%, Borderline Sat. :32.18%, Unsatisfactory :11.25%					

**\*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  $\pm 2$ : 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 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](http://www.ishtmaiimseqap.com).

Report authorized by,



Dr. Seema Tyagi (Prof.)

PT Co-ordinator: ISHTM-AIIMS-EQAP

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