



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. : 2147

Distribution No.: 162-E

Month/Year: December/2023

Instrument ID: Nihon Kohden

Model Name.: Nihon Kohden 3

Serial No.: 52404

Part Differential

Name & Contact No. of PT Co-ordinator: Dr. Manoranjan Mahapatra (Prof. & Head), Hematology, AIIMS, Delhi,
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Date of issue & status of the report: 14-02-2024[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	3.8	3.7	7.5	9.22	0.074	-0.61	0.1	0.1	0.010	0.00
RBC x10 ⁶ /µl	1	4.15	4.15	8.3	8.44	0.012	-0.46	0	0.06	0.004	-0.90
Hb g/dl	1	12.5	12.5	25	26.75	0.037	-2.15	0	0.1	0.011	-0.67
HCT%	1	40.7	40.5	81.2	84.1	0.201	-0.55	0.2	0.5	0.042	-0.40
MCV-fl	1	98.1	97.6	195.7	198.45	0.346	-0.32	0.5	0.3	0.026	0.54
MCH-Pg	1	30.1	30.1	60.2	63.2	0.080	-1.56	0	0.3	0.025	-0.81
MCHC-g/dl	1	30.9	30.7	61.6	63.4	0.138	-0.52	0.2	0.3	0.025	-0.26
Plt. x10 ³ /µl	1	215	204	419	419	2.265	0.00	11	6	0.421	0.75
Retic %	2	4	3.7	7.7	20.6	0.396	-1.12	0.3	0.7	0.045	-0.77

P.S . Assesment

YOUR REPORT		CONSENSUS REPORT
DLC%	3	Nrbcs=00 , Poly=72 L=4, E=1, Mono/Promono=00 , B1=1 P.M.=13, Mye=3, Meta=6, Other=
RBC Morphology	3	Poly: 66 - 79, Myelo: 4 - 11, Meta: 4 - 10, Lympho: 4 - 8, Eos: 1- 2, Mono: 1 - 2, nRBC/ Baso/ Promyelo, Blast : 0 - 5
Diagnosis	3	Chronic Myeloid Leukemia

COMBINED DATA VALUES OF TOTAL PARTICIPANTS

Test parameters	S.No.	Total participants covered in the current dist. 162--E	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	284	265	83.77	87.55	8.3	4.53	7.93	7.92
RBC x10⁶/µl	1	284	284	82.39	79.23	4.93	4.93	12.68	15.84
Hb g/dl	1	284	284	80.63	85.21	7.75	3.17	11.62	11.62
HCT%	1	284	265	91.7	87.92	4.15	3.02	4.15	9.06
MCV-fl	1	284	264	89.39	90.15	5.68	3.03	4.93	6.82
MCH-Pg	1	284	264	88.26	86.74	7.58	4.55	4.16	8.71
MCHC-g/dl	1	284	264	90.15	87.88	5.3	4.55	4.55	7.57
Plt. x10³/µl	1	284	265	93.58	87.92	4.53	6.79	1.89	5.29
ReticCount%	2	284	251	94.42	81.67	3.98	10.76	1.6	7.57
PS Assessment	3	284	253	Satisfactory :89.45%, Borderline Sat. :9.15%, Unsatisfactory :1.40%					

***Comments:**

- 1). Among Lab (EQA) : PS Diagnosis partially correct, 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. Manoranjan Mahapatra (Prof. & Head)

PT Co-ordinator: ISHTM-AIIMS-EQAP

Department of Hematology, AIIMS, New Delhi

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