



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. : 6571

Distribution No.: 163-P

Month/Year: May/2024

Instrument ID: NIHON KOHDEN

Model Name.: CELLTAC ALPHA

Serial No.: 5515

Name & Contact No. of PT Co-ordinator: Dr. Manoranjan Mahapatra (Prof. & Head), Hematology, AIIMS, Delhi,
 Tel: 9013085730 , E-Mail : info@ishtmaiimseqap.com

Date of issue & status of the report: 03-07-2024 [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	4.6	4.5	9.1	8.38	0.065	0.41	0.1	0.1	0.009	0.00
RBC x10 ⁶ /μl	1	4.61	4.58	9.19	9.09	0.012	0.28	0.03	0.07	0.003	-0.77
Hb g/dl	1	15.9	15.9	31.8	30.8	0.054	0.56	0	0.2	0.010	-1.35
HCT%	1	48	47.3	95.3	111.9	0.498	-0.97	0.7	0.8	0.041	-0.15
MCV-fl	1	104	103	207	247.5	1.034	-1.15	1	0.4	0.024	1.35
MCH-Pg	1	34.7	34.5	69.2	68.6	0.113	0.17	0.2	0.3	0.020	-0.27
MCHC-g/dl	1	33.6	33.1	66.7	54.9	0.203	1.58	0.5	0.3	0.016	0.67
Plt. x10 ³ /μl	1	185	181	366	360	3.217	0.05	4	10	0.536	-0.62
Retic %	2	54	48	102	60.5	1.061	1.21	6	2	0.130	1.08

P.S. Assesment

YOUR REPORT			CONSENSUS REPORT
DLC%	3	Nrbcs=02 , Poly=54 L=37, E=05, Mono/Promono=01 , B1=00 P.M.=00, Mye=00, Meta=01, Other=Few Platelets Clumps And Giant Platelets Seen, Few Hypersegmented Neutrophils Seen	Poly: 49 – 60, Lympho: 30 – 41, Mono: 2 - 4, Eosino: 2.25 - 6, Myelo/Meta/Promyelo/Blast/Baso: 0-5
RBC Morphology	3	Macrocytes ++, Macroovalocytes ++, Microcytes ++, Tear drop Cells +, Spherocytes +, Polychromatophils +, NRBC 02/100 WBC, Hypochromia +++, Anisopoikilocytosis ++.	RBCs show moderate Anisopoikilocytosis with some Macrocytic and Hypochromic cells. There is a marked increase in Polychromatophilic cells. Schistocytes, Micro-Spherocytes, and macro-ovalocytes are noted.
Diagnosis	3	F/S/O Severe Anaemia, Adv- Bone Marrow Examination, Vit. b12, Iron Profile, DCT, Clinical Correlation And Follow Up.	Autoimmune Hemolytic Anemia

COMBINED DATA VALUES OF TOTAL PARTICIPANTS

Test parameters	S.No.	Total participants covered in the current dist. 163--P	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 x10 ³ /μl	1	414	411	82.48	88.81	6.57	1.46	10.95	9.73
RBC x10 ⁶ /μl	1	414	414	86.47	89.13	5.31	5.07	8.22	5.8
Hb g/dl	1	414	414	91.55	89.37	4.83	5.31	3.62	5.32
HCT%	1	414	412	94.9	90.05	3.4	3.64	1.7	6.31
MCV-fl	1	414	414	95.89	89.86	3.14	4.35	0.97	5.79
MCH-Pg	1	414	412	89.32	89.81	4.61	4.37	6.07	5.82
MCHC-g/dl	1	414	414	92.75	85.75	3.38	4.35	3.87	9.9
Plt. x10 ³ /μl	1	414	414	87.68	89.61	2.9	5.8	9.42	4.59
ReticCount%	2	414	80	97.5	90	1.25	2.5	1.25	7.50
PS Assessment	3	414	72	Satisfactory :95.66%, Borderline Sat. :2.41%, Unsatisfactory :1.93%					

***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 > ±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. Manoranjan Mahapatra (Prof. & Head)

PT Co-ordinator: ISHTM-AIIMS-EQAP

Department of Hematology, AIIMS, New Delhi

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