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.: 5579 **Distribution No.:** 163-N **Month/Year:** April/2024

Instrument ID: HORIBA CARE **Model Name.:** ABXMICROS 60 CT **Serial No.:** 6040T95919

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: 04-07-2024[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	6.29	6.07	12.36	13.1	0.075	-0.40	0.22	0.1	0.006	1.25
RBC x10^6/µl	1	4.8	4.76	9.56	9.74	0.012	-0.61	0.04	0.04	0.003	0.00
Hb g/dl	1	12.1	12.1	24.2	23.7	0.022	0.84	0	0.1	0.008	-0.67
HCT%	1	42.8	42.6	85.4	78.8	0.213	1.25	0.2	0.4	0.026	-0.54
MCV-fl	1	89.5	89.2	178.7	161.9	0.401	1.42	0.3	0.3	0.021	0.00
MCH-Pg	1	25.4	25.2	50.6	48.8	0.058	1.28	0.2	0.2	0.013	0.00
MCHC-g/dl	1	28.4	28.3	56.7	60.1	0.174	-0.64	0.1	0.3	0.018	-0.67
Plt. x10^3/µl	1	254	236	490	473	4.433	0.12	18	6	0.394	1.80
Retic %	2	9.5	8.5	18	14.7	0.200	0.56	1	0.5	0.032	0.84

P.S. Assesment

		YOUR REPORT	CONSENSUS REPORT
DLC%	3	Nrbcs=0 , Poly=75 L=22, E=02 Mono/Promono=01 , B1=0 P.M.=0, Mye=0, Meta=0, Other=0	Poly: 70-79 , Lympho: 15-21, Mono: 2-6, Eosino: 1-3, blast/Promyelo/Myelo/Meta: 0
RBC Morphology	3	Microcytic hypochromic, Sickle cells seen (+)	Predominantly: Normocytic/Normochromic; Moderate: Sickle cells, Poikilocytosis, Target cells, Mild: Anisocytosis, Polychromasia, tear drop cells
Diagnosis	3	SICKLE CELL ANAEMIA	Sickle Cell Disease

COMBINED DATA VALUES OF TOTAL PARTICIPANTS

parameters	S.No.	Total participants covered in the current dist. 163--N	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
BC x10^3/µl	1	315	315	81.27	79.68	6.03	7.94	12.7	12.38
BC x10^6/µl	1	315	315	87.3	91.75	7.62	3.81	5.08	4.44
Hb g/dl	1	315	315	86.98	89.84	7.94	3.17	5.08	6.99
HCT%	1	315	314	87.26	90.13	6.69	3.5	6.05	6.37
MCV-fl	1	315	315	89.84	90.16	5.71	2.54	4.45	7.3
MCH-Pg	1	315	315	86.98	92.7	7.62	3.49	5.4	3.81
CHC-g/dl	1	315	315	93.97	87.3	4.13	2.86	1.9	9.84
t. x10^3/µl	1	315	315	97.46	88.57	1.9	7.3	0.64	4.13
ticCount%	2	315	238	94.96	90.34	4.2	5.04	0.84	4.62
ssessment	3	315	220	Satisfactory :80.33%, Borderline Sat. :14.60%, Unsatisfactory :5.07%					

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 companson 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)
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---------End Of Report---------