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. : 2919 **Distribution No.:** 164-G **Month/Year:** June/2024

Instrument ID: DR B LAL CLINICAL LABORATORY PVT LTD **Model Name.:** SYSMEX XN 350 **Serial No.:** 15073

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: 14-08-2024 [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 x10³/µl	1	5.73	5.49	11.22	15.8	0.350	-0.37	0.24	0.15	0.014	0.43
RBC x10⁶/µl	1	4.01	3.95	7.96	7.88	0.013	0.28	0.06	0.04	0.003	0.54
Hb g/dl	1	11.8	11.8	23.6	23.9	0.040	-0.29	0	0.1	0.009	-0.67
HCT%	1	46.2	45.9	92.1	83.9	0.145	1.87	0.1	0.1	0.007	0.00
MCV-fl	1	88.8	88.6	177.4	165.2	0.234	1.66	0.3	0.3	0.022	0.00
MCH-Pg	1	29.9	29.4	59.3	60.4	0.093	-0.50	0.5	0.2	0.017	1.35
MCHC-g/dl	1	28.8	28.8	57.6	63.1	0.111	-1.67	0	0.2	0.015	-0.90
Plt. x10³/µl	1	106	101	207	116.5	1.599	1.81	5	5	0.302	0.00
Retic %	2	5	5	10	26	0.416	-1.60	0	0.7	0.054	-0.82

P.S . Assesment

YOUR REPORT			CONSENSUS REPORT
DLC%	3	Nrbcs=2 , Poly= L=, E=, Mono/Promono= , B1= P.M.=, Mye=, Meta=, Other=	Poly: 50-63 , Lympho: 30-40, Eosino: 2-6 , Mono: 2-5, blast/Promyelo/Myelo/Meta: 0
RBC Morphology	3	Predomenantly normocytic hypochromic,No significant anisopoikilocytosis, Polychromasia ++ , 2NRBc/100WBC	Predominantly: Normocytic/Normochromic; Moderate: Anisocytosis, Microcytic, Hypochromic; Mild: Poikilocytosis, Target cells , Sickle cells, polychromatophils
Diagnosis	3		Sickle Cell Anemia

COMBINED DATA VALUES OF TOTAL PARTICIPANTS

Test parameters	S.No.	Total participants covered in the current dist. 164--G	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 $x10^3/\mu l$	1	267	266	81.95	84.59	1.5	2.63	16.550	12.78
RBC $x10^6/\mu l$	1	267	267	81.65	89.89	6.37	4.12	11.98	5.99
Hb g/dl	1	267	267	82.02	88.01	4.87	4.49	13.11	7.5
HCT%	1	267	266	89.85	90.23	5.64	6.39	4.51	3.38
MCV-fl	1	267	265	92.45	92.08	5.28	4.15	2.27	3.77
MCH-Pg	1	267	266	87.59	90.98	5.26	2.26	7.15	6.76
MCHC-g/dl	1	267	266	93.61	87.22	3.38	4.14	3.01	8.64
Plt. $x10^3/\mu l$	1	267	266	89.1	94.74	5.64	2.26	5.26	3
ReticCount%	2	267	246	91.06	92.68	8.54	2.85	0.4	4.47
PS Assessment	3	267	239	Satisfactory :90.64%, Borderline Sat. :3.37%, Unsatisfactory :5.99%					

*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 ±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 $(x-\bar{y})$ 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,

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