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. : 6882 **Distribution No.:** 163-Q **Month/Year:** Apr/2024

Instrument ID: TRANSASIA **Model Name.:** FULLY AUTOMATED 5 PART ANALYSER ERBA H 560 **Serial No.:** K1104B2211039

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: 12-06-2024 [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	4.27	4.23	8.5	8.2	0.050	**0.09**	0.04	0.06	0.011	**-0.26**
RBC x10⁶/µl	1	4.73	4.69	9.42	9.3	0.013	**0.05**	0.04	0.05	0.003	**-0.53**
Hb g/dl	1	12.9	12.7	25.6	25.8	0.036	**-0.42**	0.2	0.4	0.009	**-0.65**
HCT%	1	42.0	41.9	83.9	83.2	0.198	**0.24**	0.1	0.2	0.029	**-0.42**
MCV-fl	1	90.3	89.9	180.2	180.9	0.364	**-0.06**	0.4	0.2	0.023	**0.03**
MCH-Pg	1	27.5	27.3	54.8	55.3	0.099	**-0.52**	0.2	0.4	0.018	**-0.32**
MCHC-g/dl	1	32.5	32.2	64.7	65.3	0.165	**-0.36**	0.3	0.5	0.024	**-0.79**
Plt. x10³/µl	1	53	48	101	100.8	1.683	**0.43**	5	7	0.386	**-0.37**
Retic %	2	9.5	8.4	17.9	18.7	0.073	**-0.12**	1.1	0.09	0.023	**0.32**

P.S . Assesment

		YOUR REPORT	CONSENSUS REPORT
DLC%	3	Nrbcs=00 , Poly=16 L=80, E=02, Mono/Promono=02 , B1=00 P.M.=00,Mye=00, Meta=00, Other=SMUDGE CELLS SEEN	Lymp: 77-88, Poly: 8-14.25, mono: 1-3, nRBC/Blast/Myelo/Meta/Eosino: 0-5
RBC Morphology	3	NORMOCYTIC NORMOCHROMIC,MICROCYE(+)	Predominantly: Normocytic/ Normochromic, Moderate: Anisocytosis,Mild: Microcytic
Diagnosis	3	CHRONIC LYMPHOCYTIC LEUKEMIA	Chronic Lymphoproliferative Disorder/CLL

COMBINED DATA VALUES OF TOTAL PARTICIPANTS

Test parameters	S.No.	Total participants covered in the current dist. 163--Q	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	259	259	78.76	85.33	4.63	1.93	16.61	12.74
RBC $x10^6/\mu l$	1	259	259	83.4	87.64	8.11	3.47	8.49	8.89
Hb g/dl	1	259	259	81.47	82.24	10.81	5.79	7.72	11.97
HCT%	1	259	259	89.19	88.8	5.41	3.86	5.4	7.34
MCV-fl	1	259	259	92.66	87.64	5.79	3.47	1.55	8.89
MCH-Pg	1	259	259	90.35	86.49	6.56	6.18	3.09	7.33
MCHC-g/dl	1	259	259	91.89	89.19	6.56	1.93	1.55	8.88
Plt. $x10^3/\mu l$	1	259	259	90.73	86.87	4.63	5.41	4.64	7.72
ReticCount%	2	259	195	91.28	96.41	4.62	0.51	4.1	3.08
PS Assessment	3	259	210	Satisfactory :94.99%, Borderline Sat. :2.31%, Unsatisfactory :2.70%					

*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 ($\bar{x}$-$\bar{y}$) 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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