PROFICIENCY TESTING REPORT
ISHTM-AIIMS EXTERNAL QUALITY ASSURANCE PROGRAMME
NABL accredited programme 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. : 1272 **Distribution No.:** 152-D **Month/Year:** February/2021

Instrument ID: Merilyzer cellquant (191216)

Name & Contact No. of PT Co-ordinator: Dr. Seema Tyagi (Prof.), Hematology, AIIMS, Delhi.
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Date of issue & status of the report: 02-03-2021[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	2.82	2.63	5.45	5.5	0.0200	-0.09	0.19	0.1	0.0050	1.39
RBC x10^6/µl	1	4.74	4.71	9.45	9.32	0.0080	0.63	0.03	0.03	0.0020	0.00
Hb g/dl	1	13.1	13	26.1	27	0.0200	-1.52	0.1	0.1	0.0070	0.00
HCT%	1	41.6	41.4	83	83.9	0.1780	-0.15	0.2	0.3	0.0200	-0.27
MCV-fl	1	88	87.7	175.7	179.9	0.3170	-0.40	0.3	0.2	0.0170	0.45
MCH-Pg	1	27.6	27.6	55.2	57.7	0.0540	-1.65	0	0.2	0.0140	-0.90
MCHC-g/dl	1	31.5	31.4	62.9	64.15	0.1300	-0.28	0.1	0.3	0.0120	-0.67
Plt. x10^3/µl	1	103	97	200	196	0.75	0.19	6	4	0.26	0.45
Retic %	2	3.1	2.9	6	5	0.08	0.44	0.2	0.2	0.01	0.00

P.S . Assesment

YOUR REPORT			CONSENSUS REPORT
DLC%	3	Nrbcs=7o , Poly=69 L=28, E=0, Mono/Promono=0 , B1=0 P.M.=0, Mye=0, Meta=0.3, Other=0	nRBC: 30 - 65, Poly: 60 - 75, Lympho: 15-30, Eos/Mono: 1-5, Blast/Myelo/Meta: 0-1
RBC Morphology	3	Macrocytes, macro-ovalocytes, microcytes, normocytes, tear drop cells, spherocytes	Predominantly: Macrocytosis, Microcytosis, Spherocytosis, Polychromasia, Anisocytosis; Moderate: Normocytic/Normochromic, Hypo
Diagnosis	3	Dimorphic anemia Predominantly macrocytic. Advised- Hemolytic workup	Hemolytic Anemia

AP Code No.: 272 *Distribution No.: 152-D Month/Year: February/2021* *Instrument ID: Merilyzer cellquant (191216)*

COMBINED DATA VALUES OF TOTAL PARTICIPANTS

Test parameters	S.No.	Total participants covered in the current dist.	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	312	347	89.05	91.93	2.31	1.44	8.36	6.34
RBC x10^6/µl	1	312	347	89.63	90.78	6.92	3.46	3.17	5.19
Hb g/dl	1	312	347	91.07	93.08	6.92	2.59	2.02	4.32
HCT%	1	312	347	97.41	91.93	1.73	3.46	0.58	4.32
MCV-fl	1	312	347	97.12	85.59	1.44	8.93	0.86	4.9
MCH-Pg	1	312	347	91.35	90.78	6.05	3.46	2.31	5.48
MCHC-g/dl	1	312	347	98.27	91.93	0.29	3.75	1.15	3.75
Plt. x10^3/µl	1	312	347	93.08	91.64	3.46	5.48	3.17	2.59
ReticCount%	2	312	318	93.71	86.48	4.09	2.2	2.2	11.64
PS Assessment	3	312	335	Acceptable:91.4,Warning Signal:7.7,Unacceptable :0.9					

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.

Report authorized by,

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End Of Report