



PT EQAS RESULT REVIEW FORM

Issued by QA:

Department: <i>Clinical Biochemistry</i>	Month / Year: <i>May-2023</i>
PT Provider: <i>METROPOLIS MHL EQAS</i>	Distribution / Lot No: <i>230104/01</i>
Analyte(Test): <i>Glucose, Urea, Creatinine, Bilirubin Total, Bilirubin, Direct, Total Protein, Albumin, UA, Calcium, Phosphorus Inorganic, Magnesium, Cholesterol, HDL, LDL, ALT, AST, ALKP, CK, UGT, LOH, Amylase, Lipase, Na+, K+, Cl-</i>	
Machine used: <i>ERBA EM-120 / ERMA EL-120</i>	Kit used: <i>ERBA / ERMA EL-120</i>
Test done by: <i>Rishika</i>	Done on: <i>12/5/2023</i>
Report uploaded by: <i>AMIT KUMAR</i>	Report uploaded on: <i>14/5/2023</i>
Software used: <i>METROPOLIS MHL EQAS</i>	—
EQAS Report received on <i>19/5/2023</i>	—
Reviewed by: <i>AMIT KUMAR / KULDEEP</i>	Approved by: <i>DR. SHWETA AHUJA</i>
Observations: <i>ALL EQAS RESULT IS Satisfactory with 100.0% Score. Only ALT is in warning. We will follow in next EQAS cycle.</i>	

*If results are ungraded, please attach self-assessment. If satisfactory no corrective and preventive action required. But if unsatisfactory, corrective and preventive action is required with optimum evidence.

Self-Assessment Result: Satisfactory Unsatisfactory

Attachment: Yes No

Please investigate failure for unsatisfactory performance and submit a report to QA and Medical Director in 3 Days.

Approved by *DR. SHWETA AHUJA*

Signature (Lab Director/Designee)



Analyte	Instrument	Result Value	Standard Unit	Z-Score
ALT	Erba EM 200	2.80	U/L	-2.24

Legend @ : z score \leq 2.0 - Acceptable
 ! : 2.0 < z score < 3.0 - Warning
 X : z score \geq 3 - Unacceptable
 # : Not Evaluated
 ⊙ : Delayed Result Entry
 * : Not considered for evaluation.

Problem Classification: ALT (SGPT) cycles No-230104
 Sample no-1 was in warning.
 All other test results found satisfactory.

Corrective Action: Follows in the next cycle.
 ALT result in sample no.2 found satisfactory. Close monitoring will be performed for ALT.

Reviewed by: 21/5/2023

Dated: 21/5/2023

(Signature)



(Signature)
 21/5/2023

Instrument : Erba EM 200

Analyte	Standard Unit	Result Value	Mean	Z-Score	RMZ
@ Glucose	mg/dl	79.40	79.25	-0.05	0.26
@ Urea	mg/dl	21.50	24.59	-0.75	-0.43
@ Creatinine	mg/dl	1.08	0.93	1.17	1.36
@ Bilirubin Total	mg/dl	0.20	0.21	0.03	0.33
@ Bilirubin Direct	mg/dl	0.09	0.09	-0.07	0.06
@ Total Protein	g/dL	6.98	7.31	-0.34	-0.04
@ Albumin	g/dL	4.07	4.16	-0.09	0.27
@ Uric Acid	mg/dl	5.20	5.01	0.54	0.81
@ Calcium	mg/dl	8.60	9.12	-0.76	-0.25
@ Phosphorous Inorganic	mg/dl	4.64	4.63	0.16	0.66
@ Magnesium	mg/dl	1.98	2.47	-0.67	-0.68
@ Cholesterol	mg/dl	145.00	160.82	-1.07	-0.58
@ Triglycerides	mg/dl	110.80	116.23	-0.54	-0.16
@ HDL	mg/dl	34.10	36.65	-0.32	-0.67
@ LDL	mg/dl	88.74	92.02	-0.14	0.58
! ALT	U/L	2.80	7.88	-2.24	-1.96
@ AST	U/L	13.10	15.88	-0.93	-0.67
@ ALP	U/L	54.00	57.68	-0.39	-0.42
@ CK	U/L	50.40	40.73	1.26	1.13
@ GGT	U/L	28.50	26.25	0.24	0.61
@ LDH	U/L	233.00	212.37	0.23	0.38
@ Amylase	U/L	54.00	46.53	1.17	1.07
@ Lipase	U/L	54.40	41.58	1.16	1.37

Instrument : EL 120

Analyte	Standard Unit	Result Value	Mean	Z-Score	RMZ
@ Chloride	mmol/L	99.20	103.68	-0.13	0.54
@ Sodium	mmol/L	133.90	138.14	0.01	0.51
@ Potassium	mmol/L	4.81	4.88	0.83	1.09

Handwritten signature



Handwritten signature
21/5/2023



Metropolis Healthcare Ltd., EQAS
LIFEWELL DIAGNOSTICS PVT LTD (CHANDIGARH) (880)
Outlier And Analyte Summary Report
Result Details For Cycle No 230104 and Sample No 01

Report Date : 19/05/2023

Legend @ : Acceptable

! : 2.0 < z score < 3.0 - Warning

X : z score ≥ 3 - Unacceptable

: Not Evaluated

⊖ : Delayed Result Entry

* : Not considered for evaluation.

Total Parameters	28
Not Evaluated Parameters	0
Evaluated Parameters	28
Outlier Parameters (X)	0
EQAS Score Biochemistry	100.00 %



Amit
21/5/2023

Dr Puneet Kumar Nigam

Dr Puneet Kumar Nigam
PT coordinator & Technical Manager, MHL EQAS
Unit No. 409-416.
Commercial Building - 1A
Kohinoor Mall, Kiroi Road, Kurla (W),
Mumbai - 400070



PT EQAS RESULT REVIEW FORM

Issued by QA:

Department: <i>Clinical Biochemistry</i>	Month / Year: <i>May - 2023</i>
PT Provider: <i>METROPOLIS MHL DEAS</i>	Distribution / Lot No: <i>230/04/02</i>
Analyte(Test): <i>Glucose, Urea, Creatinine, Bilirubin Total, Bilirubin Direct, TP, Alb, UA, Calcium, Phosphorus, Magnesium, cholesterol, Triglycerids, HDL, LDL, ALT, AST, ALP, CK, GGT, LDH, Amylase, Lipase, WBC, RBC, Chloride.</i>	
Machine used: <i>ERBA EM-200 / ERMA EL-120</i>	Kit used: <i>ERBA / ERMA EL-120</i>
Test done by: <i>Rishika</i>	Done on: <i>12/5/2023</i>
Report uploaded by: <i>AMET KUMAR</i>	Report uploaded on: <i>14/5/2023</i>
Software used: <i>METROPOLIS MHL DEAS</i>	
EQAS Report received on <i>19/5/2023</i>	
Reviewed by: <i>AMET KUMAR / KULDEEP</i>	Approved by: <i>DR. SHWETA ANUJA</i>
Observations: <i>ALL DEAS RESULT IS SATISFACTORY WITH 100.0% SCORE.</i>	

*If results are ungraded, please attach self-assessment. If satisfactory no corrective and preventive action required. But if unsatisfactory, corrective and preventive action is required with optimum evidence.

Self-Assessment Result: Satisfactory Unsatisfactory

Attachment: Yes No

Please investigate failure for unsatisfactory performance and submit a report to QA and Medical Director in 3 Days.

Approved by *DR. SHWETA ANUJA*

Signature (Lab Director/Designee)





Metropolis Healthcare Ltd., EQAS
LIFEWELL DIAGNOSTICS PVT LTD (CHANDIGARH) (880)
Outlier And Analyte Summary Report

Outlier Details For Cycle No 230104 and Sample No 02

Report Date : 19/05/2023

Analyte	Instrument	Result Value	Standard Unit	Z-Score
No Outlier				
Legend @ : z score \leq 2.0 - Acceptable i : 2.0 < z score < 3.0 - Warning X : z score \geq 3 - Unacceptable # : Not Evaluated ⊙ : Delayed Result Entry * : Not considered for evaluation.				

Problem Classification:

N.A All test parameters *EQAS*
 results found *satisfactory*
100% EQAS performance
found.

Corrective Action:

N.A

Reviewed by: *[Signature]*
21/5/2023

Dated: 21/5/2023

[Signature]



[Signature]
 21/5/2023

Instrument : Erba EM 200

Analyte	Standard Unit	Result Value	Mean	Z-Score	RMZ
@ Glucose	mg/dl	89.90	88.23	0.56	0.26
@ Urea	mg/dl	25.00	25.77	-0.11	-0.43
@ Creatinine	mg/dl	1.16	0.93	1.54	1.36
@ Bilirubin Total	mg/dl	0.25	0.23	0.63	0.33
@ Bilirubin Direct	mg/dl	0.11	0.10	0.19	0.06
@ Total Protein	g/dL	7.39	7.27	0.26	-0.04
@ Albumin	g/dL	4.25	4.06	0.63	0.27
@ Uric Acid	mg/dl	5.80	5.32	1.08	0.81
@ Calcium	mg/dl	9.20	8.99	0.26	-0.25
@ Phosphorous Inorganic	mg/dl	5.18	4.76	1.16	0.66
@ Magnesium	mg/dl	2.07	2.30	-0.68	-0.68
@ Cholesterol	mg/dl	154.00	158.64	-0.09	-0.58
@ Triglycerides	mg/dl	128.00	125.08	0.23	-0.16
@ HDL	mg/dl	29.40	35.36	-1.01	-0.67
@ LDL	mg/dl	99.00	90.18	1.29	0.58
@ ALT	U/L	5.00	8.69	-1.67	-1.96
@ AST	U/L	16.40	17.33	-0.40	-0.67
@ ALP	U/L	54.00	58.14	-0.44	-0.42
@ CK	U/L	48.30	39.85	0.99	1.13
@ GGT	U/L	44.90	40.69	0.98	0.61
@ LDH	U/L	250.00	227.67	0.53	0.38
@ Amylase	U/L	56.00	48.28	0.97	1.07
@ Lipase	U/L	56.10	44.84	1.58	1.37

Instrument : EL 120

Analyte	Standard Unit	Result Value	Mean	Z-Score	RMZ
@ Chloride	mmol/L	108.90	107.20	1.21	0.54
@ Sodium	mmol/L	141.70	137.32	1.00	0.51
@ Potassium	mmol/L	5.05	4.81	1.35	1.09

Am



Amil
21/5/2023



Metropolis Healthcare Ltd., EQAS
LIFEWELL DIAGNOSTICS PVT LTD (CHANDIGARH) (880)
Outlier And Analyte Summary Report
Result Details For Cycle No 230104 and Sample No 02

Report Date : 19/05/2023

- Legend @ : Acceptable
! : 2.0 < z score < 3.0 - Warning
X : z score ≥ 3 - Unacceptable
: Not Evaluated
⊙ : Delayed Result Entry
* : Not considered for evaluation.

Total Parameters	26
Not Evaluated Parameters	0
Evaluated Parameters	26
Outlier Parameters (X)	0
EQAS Score Biochemistry	100.00 %



Amit
21/5/2023

Dr Puneet Kumar Nigam

Dr Puneet Kumar Nigam
PT coordinator & Technical Manager, MHL EQAS
Unit No. 409-416,
Commercial Building - 1A
Kohinoor Mall, Kiroi Road, Kurla (W),
Mumbai - 400070

Analyte	Instrument	Result Value	Standard Unit	Z-Score
: HbA1c	Blorad D-10	9.30	%	2.5

Legend @ : z score \leq 2.0 - Acceptable
 . : 2.0 < z score < 3.0 - Warning
 X : z score \geq 3 - Unacceptable
 # : Not Evaluated
 ⊙ : Delayed Result Entry
 * : Not considered for evaluation.

Problem Classification: HbA1c results found in warning.

Close monitoring is required.
Verified equipment calibration, maintenance, reagents, storage, transport
Sample storage, seasonal loading and found satisfactory. Suspected random error

Corrective Action: Close monitoring will be performed and
follow in the next cycle.

Reviewed by: [Signature]
21/5/2023.

Dated: 21/5/2023



[Signature]
21/5/2023.

Instrument : Blorad D-10

Analyte	Standard Unit	Result Value	Mean	Z-Score	RM
HbA1c	%	9.30	8.37	2.58	2.5

Legend @ : Acceptable : 2.0 < z score < 3.0 - Warning X : z score ≥3 - Unacceptable # : Not Evaluated ⊙ : Delayed Result Entry * : Not considered for evaluation.	Total Parameters	1
	Not Evaluated Parameters	0
	Evaluated Parameters	1
	Outlier Parameters (X)	0
	EQAS Score HbA1c	100.00 %



Smil
21/5/2023

Dr Puneet Kumar Nigam
PT coordinator & Technical Manager, MHL EQAS
Unit No. 409-416.
Commercial Building - 1A
Kohinoor Mall, Kiroi Road, Kurla (W),
Mumbai - 400070

Analyte	Instrument	Result Value	Standard Unit	Z-Score
HbA1c	Biorad D-10	9.60 %		2.5

Legend @ : z score \leq 2.0 - Acceptable
 : 2.0 < z score < 3.0 - Warning
 X : z score \geq 3 - Unacceptable
 # : Not Evaluated
 ⊙ : Delayed Result Entry
 * : Not considered for evaluation.

Problem Classification: HbA1c results found warning
visited equipment calibration, maintenance, Reagent storage
Personal Training temperature, and any other issues. No
issues observed and suspected random error.

Corrective Action: Close monitoring will be performed
follow in next cycle.

Reviewed by [Signature] 21/5/2023.

Dated: 21/5/2023.



Instrument : Biorad D-10

Analyte	Standard Unit	Result Value	Mean	Z-Score	RA	
HbA1c	%	9.60	8.88	2.52	2.1	
Legend @ : Acceptable					Total Parameters	1
: 2.0 < z score < 3.0 - Warning					Not Evaluated Parameters	0
X : z score ≥ 3 - Unacceptable					Evaluated Parameters	1
# : Not Evaluated					Outlier Parameters (X)	0
⊙ : Delayed Result Entry					EQAS Score HbA1c	100.00 %
* : Not considered for evaluation.						

(Handwritten mark)



Amol
21/5/2023

Dr Punet Kumar Nigam

Dr Punet Kumar Nigam
PT coordinator & Technical Manager, MHL EQAS
Unit No. 409-416,
Commercial Building - 1A
Kohinoor Mall, Kiroi Road, Kurla (W),
Mumbai - 400070