Title	PT/ EQAS EVALUATION RECORD
Document Number	FRM.QCM.03
Version	02
Amendment No	00
Effective Date	02.06.2023



Date of Investigation: 22 105 2024

РΊ	(Jamph - April - 2024)
Da	te of PT/EQAS: 19 06 12024
Ac	ceptable/ Unacceptable Results
Ac	ceptable Result Range: 19.82 ± 5.88
Pr	evious Trends/ Unacceptable Results from this Analyte/ Test:
	He any trend.
	assification of Problems: (Please tick) erical: Transcription error (may be pre- or post-analytical factors) Wrong method has been registered for analysis or method change not updated.
De	tails of Investigation:
	Mone
	None
Me	ethodological
	ethodological Instrument function checks (e.g., temperatures, blank readings, pressures) not performed as necessary, or
	ethodological Instrument function checks (e.g., temperatures, blank readings, pressures) not performed as necessary; or results not within acceptable range.
	ethodological Instrument function checks (e.g., temperatures, blank readings, pressures) not performed as necessary, or results not within acceptable range. Scheduled instrument maintenance not performed appropriately.
	ethodological Instrument function checks (e.g., temperatures, blank readings, pressures) not performed as necessary, or results not within acceptable range. Scheduled instrument maintenance not performed appropriately. Incorrect instrument calibration.
	ethodological Instrument function checks (e.g., temperatures, blank readings, pressures) not performed as necessary; or results not within acceptable range. Scheduled instrument maintenance not performed appropriately. Incorrect instrument calibration. Standards or reagents improperly reconstituted and stored, or inadvertently used beyond expiration date.
	ethodological Instrument function checks (e.g., temperatures, blank readings, pressures) not performed as necessary; or results not within acceptable range. Scheduled instrument maintenance not performed appropriately. Incorrect instrument calibration. Standards or reagents improperly reconstituted and stored, or inadvertently used beyond expiration date. Instrument probes misaligned.
	ethodological Instrument function checks (e.g., temperatures, blank readings, pressures) not performed as necessary; or results not within acceptable range. Scheduled instrument maintenance not performed appropriately. Incorrect instrument calibration. Standards or reagents improperly reconstituted and stored, or inadvertently used beyond expiration date.
	ethodological Instrument function checks (e.g., temperatures, blank readings, pressures) not performed as necessary, or results not within acceptable range. Scheduled instrument maintenance not performed appropriately. Incorrect instrument calibration. Standards or reagents improperly reconstituted and stored, or inadvertently used beyond expiration date. Instrument probes misaligned. Problem with instrument data processing functions. The laboratory may need to contact the manufacturer to
	ethodological Instrument function checks (e.g., temperatures, blank readings, pressures) not performed as necessary, or results not within acceptable range. Scheduled instrument maintenance not performed appropriately. Incorrect instrument calibration. Standards or reagents improperly reconstituted and stored, or inadvertently used beyond expiration date. Instrument probes misaligned. Problem with instrument data processing functions. The laboratory may need to contact the manufacturer to evaluate such problems.
	Instrument function checks (e.g., temperatures, blank readings, pressures) not performed as necessary; or results not within acceptable range. Scheduled instrument maintenance not performed appropriately. Incorrect instrument calibration. Standards or reagents improperly reconstituted and stored, or inadvertently used beyond expiration date. Instrument probes misaligned. Problem with instrument data processing functions. The laboratory may need to contact the manufacturer to evaluate such problems. Problem in manufacture of reagents / standards, or with instrument settings specified by manufacturer
	Instrument function checks (e.g., temperatures, blank readings, pressures) not performed as necessary, or results not within acceptable range. Scheduled instrument maintenance not performed appropriately. Incorrect instrument calibration. Standards or reagents improperly reconstituted and stored, or inadvertently used beyond expiration date. Instrument probes misaligned. Problem with instrument data processing functions. The laboratory may need to contact the manufacturer to evaluate such problems. Problem in manufacture of reagents / standards, or with instrument settings specified by manufacturer Carry-over from previous specimen.

Lupin Diagnostics (Lupin Diagnostics Limited)	Page 1 of 4
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	QC material not run at relevant analyte concentration.						
	Result not within reportable range (linearity) for instrument / reagent system.						
	Obstruction of instrument tubing / orifice by clot or protein.						
	Incorrect incubation times.						
De	etails of Investigation:						
	None						
_							
Te	chnical						
	EQA material improperly reconstituted.						
	Testing delayed after reconstitution of EQA material (with problem from evaporation or deterioration).						
	Sample not placed in proper order on instrument.						
	Result released despite unacceptable QC data.						
	QC data within acceptable limits but showed trend suggestive of problem with the assay.						
	Inappropriate quality control limits / rules. If the acceptable QC range is too wide, the probability increases that						
	a result will fall within the acceptable QC range yet exceed acceptable limits for EQA.						
	Manual pipetting / diluting performed inaccurately, at an incorrect temperature or with incorrect diluent.						
	Calculation error or result reported using too few significant digits.						
	Secondary specimen tubes incorrectly labeled.						
	In addition to above discipline specific errors may also occur						
De	etails of Investigation:						
_	None,						
Pr	oblem with PT/EQAS Material						
	Matrix effects: The performance of some instrument / method combinations may be affected by the matrix of						
	the PT/EQAS sample. This can be overcome to some extent by assessing participants in peer groups – to be done						
	by the PT/EQAS provider.						
	Non-homogenous test material due to variability infill volumes, inadequate mixing, or inconsistent heating of						
	lyophilized specimens.						
	Non-viable samples for microbiology PT/EQAS program.						
	Haemolysis on an immune-haemtology program samples.						
De	etails of Investigation:						

Lupin Diagnostics (Lupin Diagnostics Limited)	Page 2 of 4				
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PT/ EQAS EVALUATION RECORD			
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Site: All Locations



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Pro	blem with PT/EQAS Evaluation
	Peer group not appropriate.
	Inappropriate target value: Target values developed from participant consensus can be inappropriate from non-homogeneous testing material or lingering ("masked") outliers. However, occasional inappropriate target values occur in every PT program. Inappropriate evaluation interval: An evaluation interval may be inappropriately narrow e.g. if ± 2 standard deviation units are used with an extremely precise method; the acceptable range may be much narrower than needed for clinical usefulness.
	Incorrect data entry by PT provider.
Det	ails of Investigation:
	Norse
	nmary of Investigation: No any Issue notes well analyser, reagent Calibration Ide peoplermanes found within acceptable limit on the day of Earl process. Au reagent and calibration within expiry limit.
Wa	s patient data affected? & Corrective action taken if Patient data was affected.
	no, no any complaint reveived
Cor	rective/ Preventive action taken to prevent Reoccurrence
A	July post of preventive action always postormana verity by some laboratory comparision study with referred tobe the performance found within acceptable limit.
Lup	pin Diagnostics (Lupin Diagnostics Limited) Page 3 of

PT/ EQAS EVALUATION RECORD			
FRM.QCM.03			
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02.06.2023			



Conclusions Bared dw Clorel	on the to system	Cinding, natices	gluox nor our	outlies pego	found to be mana can be
	ger/ Team Leader			22/05	1
Lab Head	Shoroge	•	Dat	22/5	24

VIEW LAB MONTHLY SUMMARY

Lab Name

LUPIN DIAGNOSTICS

Details About Robust Analysis

Lab No

16726

Detail About Monthly Summary

Month

April

Detail about Z-Score

Year

Group

2024

Constituent

Chemistry I

Click on the analyte to view Graphical Data

All Analyser Result

Print

Print Non Accredited Analytes

Date of Result Entered: 19/04/2024

Date of Report Published: 08/05/2024

		Method / Principle		No of		Partic	ipants	Your	-	7.04
SI.No	Analyte	Name	Analyzer Name	Participants	AV	CV	SDPA	Value	Z Score	u"
1	GLUCOSE	Dry Chemistry	Fuji Dry Chemistry series	50	119.82	4.91	5.88	102 mg/dL	-3.03	1.66
2	UREA	Dry Chemistry	Fuji Dry Chemistry series	59	37.59	4.22	1.59	38.09 mg/dL	0.32	0.41
3	CREATININE	Dry Chemistry	Fuji Dry Chemistry series	58	1.79	4.97	0.09	1.74 mg/dL	-0.56	0.02
4	T.BILIRUBIN	Dry Chemistry	Fuji Dry Chemistry series	57	1.99	7.79	0.16	1.8 mg/dL	-1.23	0.04
5	D.BILIRUBIN	Dry Chemistry	Fuji Dry Chemistry series	14	0.96	12.05	0.12	1 mg/dL	0.34	0.06
6	T-PROTEIN	Dry Chemistry	Fuji Dry Chemistry series	62	5.01	4.73	0.24	4.7 g/dL	-1.31	0.06
7	ALBUMIN	Dry Chemistry	Fuji Dry Chemistry series	62	3.33	5.38	0.18	3.4 g/dL	0.39	0.05
8	CALCIUM	Dry Chemistry	Fuji Dry Chemistry series	66	7.72	6.10	0.47	7.8 mg/dL	0.17	0.12
9	URIC ACID	Dry Chemistry	Fuji Dry Chemistry series	61	4.77	3.59	0.17	4.7 mg/dL	-0.41	0.04
10	CHOLESTEROL	Dry Chemistry	Fuji Dry Chemistry series	63	106.61	7.21	7.68	106 mg/dL	-0.08	1.94
11	TRIGLYCERIDE	Dry Chemistry	Fuji Dry Chemistry series	63	164.32	4.96	8.16	169 mg/dL	0.57	2.06
12	HDL	Dry Chemistry	Fuji Dry Chemistry series	61	22.74	7.68	1.75	22 mg/dL	-0.42	0.45
13	SODIUM	Dry Chemistry	Fuji Dry Chemistry series	76	132.04	2.44	3.22	141 mmol/L	2.78	0.74
14	POTASSIUM	Dry Chemistry	Fuji Dry Chemistry series	77	3.19	4.76	0.15	3.3 mmol/L	0.72	0.03
15	CHLORIDE	Dry Chemistry	Fuji Dry Chemistry series	73	90.75	3.56	3.23	91 mmol/L	0.08	0.76
16	AST	Dry Chemistry	Fuji Dry Chemistry series	61	107.15	8.83	9.46	93 U/L	-1.50	2.42
17	ALT	Dry Chemistry	Fuji Dry Chemistry series	53	41.80	12.82	5.36	36 U/L	-1.08	1.47
18	ALP	Dry Chemistry	Fuji Dry Chemistry series	57	211.61	9.54	20.18	178 U/L	-1.67	5,35

u* - Method of Uncertainty

Z-Score	Interpretation
lzl ≤ 2.0	Acceptable
2.0 < 1z1 < 3.0	Warning Signal

Title	INTER- INSTRUMENT / INTER-TECHNOLOGY ANALYSIS	8
Document Number	FRM.QCM.20	HIR
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Amendment No	00	k
Effective Date	02.06.2023	

* DIAGN: STICS Good health starts here

Year

Month

Biochemistry

Department

- Wallahim Remarks (if any) Acceptable Acceptable/ Acceptable Not Acceptable Criteria as per ALP/ CLIA subpart I 0/00 %Difference 5.87 Difference Results 109.66 Coba Instrument/ Technology-2 Details of Results 600 Instrument/ Technology-1 Details of Fur. palosthis einem Glueber mglde SI Unit Parameter/ Analyte Sample No. & Type Date

Performed Bv:		Apployed DV.	
		6	
Lupin Diagnostics (Lupin Diagnostics Limited)			Page 1 of 1
Site: All Locations	CONFIDENTIAL:	CONFIDENTIAL: Authorized for internal use only	

Patient Information

Name

: Mrs.SHUBHANGI BALALNATH PAWAR Visit ID

Age/Gender; 32 Y 0 M 0 D /Female

MobileNo

: 9405400941

UHID

; LDAA01894659

Address

Received

Specimen Information : LGRG16974

Collected

: 21/May/2024 16:59

: 22/May/2024 09:21 : 22/May/2024 11:25

Reported IP/OP/Barcode:

Report Status : Final Report

Client/Doctor Information

Client Code: HLM0010

Client Name : HLM LATUR FERTILITY PRIVATE LIMITED

Client Add. : LATUR

Client No. :

Ref Doctor : Dr.K B Barmade

					-
Test Name	Result	Bio. Ref. Range	Unit	Method	

Blood Glucose Random (RBS), FLUORIDE PLASMA

Blood Glucose Random (RBS)	109.60	70.0-140.0	mg/dL	Enzymatic UV Hexokinase

Interpretation:

This test checks your blood glucose levels, at random time of the day.

Diagnosing	Diabetes	
RBS value	Interpretation	
70-140 mg/dL	Normal	
>/=200	Diabetic	

The above reference ranges are as per ADA guidelines.

*** End Of Report ***



Dr. Manoj Sawadkar Consultant - MD Path



SIN No:BI01828887

This test has been performed at Lupin Diagnostics Laboratory, NRL MUMBAI National Reference Laboratory, Plot No. C-533, MIDC, TTC Industrial Area, Pawane, Turbhe, NAVI MUMBA1, 400705

Page 1 of 1



Patient Information

: Mrs.SHUBHANGI BALALNATH PAWAF

Age/Gender: 32 Y 0 M 0 D /Female

MobileNo

: 9405400941

UHID

:LDAA01894659

Address

Specimen Information

Visit ID

: LGRG16971

Collected Received

: 21/May/2024 15:17

Reported

: 21/May/2024 16:15

IP/OP/Barcode: R-1500580

Report Status : Final Report

Client/Doctor Information

Client Code: HLM0010

: 21/May/2024 15:16 Client Name : HLM LATUR FERTILITY

PRIVATE LIMITED

Client Add. : LATUR

Client No.

Ref Doctor : Dr.K B Barmade

	PRE-OPER	RATIVE PANEL		
Test Name	Result	Bio. Ref. Range	Unit	Method

Blood Glucose Random (RBS), FLUORIDE PLASMA

Blood Glucose Random (RBS) 103.00 70-	-140 mg/dL Colorimetric End-Poi	oint
---------------------------------------	---------------------------------	------

Interpretation:

This test checks your blood glucose levels, at random time of the day.

Diagnosin	g Diabetes
RBS value	Interpretation
70-140 mg/dL	Normal
>/=200	Diabetic

The above reference ranges are as per ADA guidelines.

*** End Of Report ***





This test has been performed at Lupin Diagnostics Laboratory, HLM LATUR FERTILITY PRIVATE LIMITED Barmade Hospital Old Adarsh Colony Ausa Road, LATUR, LATUR, 413512



Page 1 of 1



CHRISTIAN MEDICAL COLLEGE VELLORE

Click on the analyte to view Graphical Data

In Service of the Nation Since 1900...







CHRISTIAN MEDICAL COLLEG

In Service of the Nation Since 1900...

VIEW LAB MONTHLY SUMMARY

Lab Name

16726 Lab No Month March

Year 2024

Chemistry I Constituent Group

LUPIN DIAGNOSTICS

Details About Robust Analysis

Detail About Monthly Summary

Detail about Z-Score

All Analyser Result

Print

Print Non Accredited Analytes

Date of Result Entered: 19/03/2024

Date of Report Published: 06/04/2024

SI.No	Analyte	Method / Principle Name	Analyzer Name	No of Participants	AV	Partic	pants	Your Value	Z Score	u*
31.10	Analyte	metriou / Principie Name	Analyzei Name	NO OF PARTICIPANTS	AV	CV	SDPA	Tour value	Z Score	ď
1	GLUCOSE	Dry Chemistry	Fuji Dry Chemistry series	51	165.29	4.72	7.80	142 mg/dL	-2.99	2.18
2	UREA	Dry Chemistry	Fuji Dry Chemistry series	54	25.72	4.67	1.20	25.46 mg/dL	-0.22	0.33
3	CREATININE	Dry Chemistry	Fuji Dry Chemistry series	59	0.94	6.82	0.06	0.9 mg/dL	-0.62	0.02
4	T.BILIRUBIN	Dry Chemistry	Fuji Dry Chemistry series	55	0.77	14.19	0.11	0.8 mg/dL	0.28	0.03
5	D.BILIRUBIN	Dry Chemistry	Fuji Dry Chemistry series	10	0.30	0.00	0.00	0.2 mg/dL	0.00	0.00
6	T-PROTEIN	Dry Chemistry	Fuji Dry Chemistry series	59	5.50	5.92	0.33	5.2 g/dL	-0.92	80.0
7	ALBUMIN	Dry Chemistry	Fuji Dry Chemistry series	57	3.45	8.24	0.28	3.4 g/dL	-0.18	0.08
8	CALCIUM	Dry Chemistry	Fuji Dry Chemistry series	71	8.60	7.04	0.60	8.2 mg/dL	-0.66	0.14
9	CHOLESTEROL	Dry Chemistry	Fuji Dry Chemistry series	61	113.27	8.37	9.48	104 mg/dL	-0.98	2.43
10	HDL	Dry Chemistry	Fuji Dry Chemistry series	57	24.53	5.59	1.37	24 mg/dL	-0.39	0.36
11	SODIUM	Dry Chemistry	Fuji Dry Chemistry series	76	139.03	2.84	3.95	141 mmol/L	0.50	0.91
12	POTASSIUM	Dry Chemistry	Fuji Dry Chemistry series	70	3.59	3.99	0.14	3.6 mmol/L	0.07	0.03
13	CHLORIDE	Dry Chemistry	Fuji Dry Chemistry series	74	101.05	3.37	3.40	102 mmol/L	0.28	0.79
14	AST	Dry Chemistry	Fuji Dry Chemistry series	58	59.17	7.91	4.68	50 U/L	-1.96	1.23
15	ALT	Dry Chemistry	Fuji Dry Chemistry series	59	94.42	12.10	11.43	80 U/L	-1.26	2.98



CHRISTIAN MEDICAL COLLEGE

DEPARTMENT OF CLINICAL BIOCHEMISTRY

CMC EXTERNAL QUALITY ASSURANCE SCHEME MONTHLY SUMMARY REPORT - FEBRUARY 2024



Lab Name

LUPIN DIAGNOSTICS

Lab No

16726

Constituent Group

Chemistry I

Date of Result Entered :

20/02/2024

PT item

Lyophilized human serum based

Date of Report Published:

05/03/2024

SI.No	Analyte	Method /	Analyzer	No of	AV	Parti	cipants	Your	z	u*
31.NO	Analyte	Principle Name	Name	Participants	AV	CV	SDPA	Value	Score	u"
1	GLUCOSE	Dry Chemistry	Ortho Clinical Diagnostics Dry Chemistry Series	270	241.84	3.24	7.84	218 mg/dL	-3.04	0.9
2	UREA	Dry Chemistry	Ortho Clinical Diagnostics Dry Chemistry Series	273	64.21	4.25	2.73	67.41 mg/dL	1.17	0.3
3	CREATININE	Dry Chemistry	Ortho Clinical Diagnostics Dry Chemistry Series	275	5.65	4.66	0.26	5.96 mg/dL	1.18	0.0
4	T.BILIRUBIN	Dry Chemistry	Ortho Clinical Diagnostics Dry Chemistry Series	273	2.79	6.17	0.17	2.8 mg/dL	0.06	0.0
5	T-PROTEIN	Dry Chemistry	Ortho Clinical Diagnostics Dry Chemistry Series	281	5.15	3.83	0.20	4.8 g/dL	-1.78	0.0
6	ALBUMIN	Dry Chemistry	Ortho Clinical Diagnostics Dry Chemistry Series	280	3.02	5.19	0.16	3.2 g/dL	1.15	0.0
7	CALCIUM	Dry Chemistry	Ortho Clinical Diagnostics Dry Chemistry Series	265	10.10	3.17	0.32	9.9 mg/dL	-0.62	0.0
8	URIC ACID	Dry Chemistry	Ortho Clinical Diagnostics Dry Chemistry Series	274	7.04	3.78	0.27	7.3 mg/dL	0.98	0.0
9	CHOLESTEROL	Dry Chemistry	Ortho Clinical Diagnostics Dry Chemistry Series	256	107.09	5.50	5.89	108 mg/dL	0.15	0.7
10	TRIGLYCERIDE	Dry Chemistry	Ortho Clinical Diagnostics Dry Chemistry Series	259	224.57	4.81	10.81	225 mg/dL	0.04	1.3
11	HDL	Dry Chemistry	Ortho Clinical Diagnostics Dry Chemistry Series	251	23.42	6.07	1.42	23 mg/dL	-0.30	0.1
12	SODIUM	Dry Chemistry	Ortho Clinical Diagnostics Dry Chemistry Series	230	125.29	2.49	3.12	130 mmol/L	1.51	0.4
13	POTASSIUM	Dry Chemistry	Ortho Clinical Diagnostics Dry Chemistry Series	229	5.00	2.92	0.15	5 mmol/L	0.00	0.0
14	CHLORIDE	Dry Chemistry	Ortho Clinical Diagnostics Dry Chemistry Series	195	96.80	2.88	2.79	100 mmol/L	1.15	0.4
15	AST	Dry Chemistry	Ortho Clinical Diagnostics Dry Chemistry Series	286	88.59	5.58	4.94	61 U/L	-5.58	0.5
16	ALT	Dry Chemistry	Ortho Clinical Diagnostics Dry Chemistry Series	282	103.61	7.48	7.75	90 U/L	-1.76	0.9
17	ALP	Dry Chemistry	Ortho Clinical Diagnostics Dry Chemistry Series	283	81.32	7.56	6.14	102 U/L	3.37	0.7

u* - Method of Uncertainty

Z-Score	Interpretation
Izl ≤ 2.0	Acceptable
2.0 < Izl < 3.0	Warning Signal
z ≥ 3.0	Unacceptable (action Signal)

Self-Evaluation summary report

Aim-Self-evaluation performed because of laboratory were missed to change instrument name on EQAS portal

CMC Vellore – Sample February-2024

1.00	Namo		omriN noryleny	No of	//			Tour	7 50000	*
П		Principle Name	Alialyzel Nalile	Participants	Ž	ડ	SDPA	Value	2 3COL E	5
	GLUCOSE	Dry Chemistry	Ortho Clinical Diagnostics Dry Chemistry Series	270	241.84	3.24	7.84	218	-3.04	0.95
			Fuji Dry Chemistry series	52	249.01	4.06	10.11		-3.07	2.8
2	UREA	Dry Chemistry	Ortho Clinical Diagnostics Dry Chemistry Series	273	64.21	4.25	2.73	67.41	1.17	0.33
			Fuji Dry Chemistry series	56	98.99	4.03	2.7		0.20	/ 0.72
3	CREATININE	Dry Chemistry	Ortho Clinical Diagnostics Dry Chemistry Series	275	5.65	4.66	0.26	5.96	1.18	0.03
			Fuji Dry Chemistry series	09	5.73	5.89	0.34		0.68	60.0
4	T.BILIRUBIN	Dry Chemistry	Ortho Clinical Diagnostics Dry Chemistry Series	273	2.79	6.17	0.17	2.8	90.0	0.05
			Fuji Dry Chemistry series	58	2.79	6.23	0.17		0.06	0.05
2	T-PROTEIN	Dry Chemistry	Ortho Clinical Diagnostics Dry Chemistry Series	281	5.15	3.83	0.5	4.8	-1.78	0.05
			Fuji Dry Chemistry series	59	5.18	4.96	0.26		-1.46	0.07
9	ALBUMIN	Dry Chemistry	Ortho Clinical Diagnostics Dry Chemistry Series	280	3.02	5.19	0.16	3.2	1.15	0.02
			Fuji Dry Chemistry series	58	3.21	5.26	0.17		-0.06	0.04
7	CALCIUM	Dry Chemistry	Ortho Clinical Diagnostics Dry Chemistry Series	265	10.1	3.17	0.32	9.6	-0.62	0.04
			Fuji Dry Chemistry series	73	9.83	6.12	9.0		0.12	0.14
∞	URIC ACID	Dry Chemistry	Ortho Clinical Diagnostics Dry Chemistry Series	274	7.04	3.78	0.27	7.3	0.98	0.03
			Fuji Dry Chemistry series	65	7.68	4.18	0.32		-1.19	0.08
6	CHOLESTEROL	Dry Chemistry	Ortho Clinical Diagnostics Dry Chemistry Series	256	107.09	5.5	5.89	108	0.15	0.74
			Fuji Dry Chemistry series	59	111.97	89.9	7.48		-0.53	7 1.95
10	TRIGLYCERIDE	Dry Chemistry	Ortho Clinical Diagnostics Dry Chemistry Series	259	224.57	4.81	10.81	225	0.04	1.34
			Fuji Dry Chemistry series	62	222.57	6.17	13.72		0.18	3.49
11	HDL	Dry Chemistry	Ortho Clinical Diagnostics Dry Chemistry Series	251	23.42	6.07	1.42	23	-0.30	0.18
			Fuji Dry Chemistry series	62	23.41	6.01	1.41		-0.29	0.36
12	SODIUM	Dry Chemistry	Ortho Clinical Diagnostics Dry Chemistry Series	230	125.29	2.49	3.12	130	1.51	0.41

Title	PT/ EQAS EVALUATION RECORD	
Document Number	FRM.QCM.03	
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Amendment No	00	
Effective Date	02.06.2023	



Date of Investigation: 06/03/2014

PT/EQAS Set Identification: cme veller (Sample February - 2014)
Date of PT/EQAS: Q0/62/2024	
Acceptable/ Unacceptable Results chloride of AST	
Acceptable Result Range:	
Previous Trends/ Unacceptable Results from this Analyte/ Test:	
No	
Classification of Problems: (Please tick) Clerical: Transcription error (may be pre- or post-analytical factors) Wrong method has been registered for analysis or method change not updated.	
Details of Investigation:	
	-
	-
	-
Methodological	
□ Instrument function checks (e.g., temperatures, blank readings, pressures) not performed as necessary, or	
results not within acceptable range.	
□ Scheduled instrument maintenance not performed appropriately.	
□ Incorrect instrument calibration.	
□ Standards or reagents improperly reconstituted and stored, or inadvertently used beyond expiration date.	
☐ Instrument probes misaligned.	
☐ Problem with instrument data processing functions. The laboratory may need to contact the manufacturer to	
evaluate such problems.	
□ Problem in manufacture of reagents / standards, or with instrument settings specified by manufacturer	
☐ Carry-over from previous specimen.	
☐ Automatic pipettor not calibrated to acceptable precision and accuracy.	
☐ Imprecision from result being close to detection limit of method.	
☐ QC material not run within expiration date, or improperly stored.	

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	QC material not run at relevant analyte concentration.
	Result not within reportable range (linearity) for instrument / reagent system.
	Obstruction of instrument tubing / orifice by clot or protein.
	Incorrect incubation times.
De	tails of Investigation:
_	
Те	chnical
	EQA material improperly reconstituted.
	Testing delayed after reconstitution of EQA material (with problem from evaporation or deterioration).
	Sample not placed in proper order on instrument.
	Result released despite unacceptable QC data.
	QC data within acceptable limits but showed trend suggestive of problem with the assay.
	Inappropriate quality control limits / rules. If the acceptable QC range is too wide, the probability increases that
	a result will fall within the acceptable QC range yet exceed acceptable limits for EQA.
	Manual pipetting / diluting performed inaccurately, at an incorrect temperature or with incorrect diluent.
	Calculation error or result reported using too few significant digits.
	Secondary specimen tubes incorrectly labeled.
	In addition to above discipline specific errors may also occur
De	etails of Investigation:
Pro	oblem with PT/EQAS Material
	Matrix effects: The performance of some instrument / method combinations may be affected by the matrix of
	the PT/EQAS sample. This can be overcome to some extent by assessing participants in peer groups – to be done
	by the PT/EQAS provider.
	Non-homogenous test material due to variability infill volumes, inadequate mixing, or inconsistent heating of
	lyophilized specimens.
	Non-viable samples for microbiology PT/EQAS program.
	Haemolysis on an immune-haemtology program samples.
De	etails of Investigation:

Lupin Diagnostics (Lupin Diagnostics Limited)	Page 2 of 4	
Site: All Locations	CONFIDENTIAL: Authorized for internal use only	

Title	PT/ EQAS EVALUATION RECORD	
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Pro	oblem with PT/EQAS Evaluation		
	Peer group not appropriate.		
	values occur in every PT program. Inappropriate evaluation interval: An evaluation interval may be		
	inappropriately narrow e.g. if ± 2 standard deviation units are used with an extremely precise method;		
	the acceptable range may be much narrower than needed for clinical usefulness.		
	Incorrect data entry by PT provider.		
De	tails of Investigation:		
	None		
_			
	Explanation: Attributed to Random Error y Others (explain) No any sawe found in any sawe found in		
	mmary of Investigation:		
_	I De performance within acceptable range		
	No any technical error notes.		
•	- No any technical error noted.		
Wa	s patient data affected? & Corrective action taken if Patient data was affected.		
	N6		
Co	rrective/ Preventive action taken to prevent Reoccurrence		
	performance of both parameter will be monitor closely in ment sumple		
	Crops III		

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Conclusions Conclusions Conclusions	warning	pego	romance as randon
Quality Manager/ Team Leader	Mustalain	Date:	06/03/24
Lab Head		Date:	8/3124

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Date of Investigation: 06/03/2024

PT/EQAS Set Identification: (Mc vellore (Sample - Fabruary - 2024)
Date of PT/EQAS: 22/01/2024
Acceptable/ Unacceptable Results Cholesterol Glucose Acceptable Result Range: 949 ± 10.11
Acceptable Result Range: 249 ± 10·/1
Previous Trends/ Unacceptable Results from this Analyte/ Test:
No
C_{0}
Classification of Problems: (Please tick) Clerical: Transcription error (may be pre- or post-analytical factors)
☐ Wrong method has been registered for analysis or method change not updated.
Details of Investigation:
None
Methodological Instrument function checks (e.g., temperatures, blank readings, pressures) not performed as necessary, or
results not within acceptable range.
☐ Scheduled instrument maintenance not performed appropriately.
☐ Incorrect instrument calibration.
☐ Standards or reagents improperly reconstituted and stored, or inadvertently used beyond expiration date.
☐ Instrument probes misaligned.
□ Problem with instrument data processing functions. The laboratory may need to contact the manufacturer to
evaluate such problems.
□ Problem in manufacture of reagents / standards, or with instrument settings specified by manufacturer
□ Carry-over from previous specimen.
□ Automatic pipettor not calibrated to acceptable precision and accuracy.
☐ Imprecision from result being close to detection limit of method.
□ QC material not run within expiration date, or improperly stored.

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QC material not run at relevant analyte concentration.
□ Result not within reportable range (linearity) for instrument / reagent system.
□ Obstruction of instrument tubing / orifice by clot or protein.
□ Incorrect incubation times.
Details of Investigation:
None
Technical
□ EQA material improperly reconstituted.
Testing delayed after reconstitution of EQA material (with problem from evaporation or deterioration).
□ Sample not placed in proper order on instrument.
Result released despite unacceptable QC data.
QC data within acceptable limits but showed trend suggestive of problem with the assay.
☐ Inappropriate quality control limits / rules. If the acceptable QC range is too wide, the probability increases that a result will fall within the acceptable QC range yet exceed acceptable limits for EQA.
☐ Manual pipetting / diluting performed inaccurately, at an incorrect temperature or with incorrect diluent.
Calculation error or result reported using too few significant digits.
□ Secondary specimen tubes incorrectly labeled.
□ In addition to above discipline specific errors may also occur
Details of Investigation:
Problem with PT/EQAS Material
☐ Matrix effects: The performance of some instrument / method combinations may be affected by the matrix of the PT/EQAS sample. This can be overcome to some extent by assessing participants in peer groups – to be done by the PT/EQAS provider.
□ Non-homogenous test material due to variability infill volumes, inadequate mixing, or inconsistent heating of
lyophilized specimens.
□ Non-viable samples for microbiology PT/EQAS program.
☐ Haemolysis on an immune-haemtology program samples.
Details of Investigation:

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Prob	elem with PT/EQAS Evaluation
	Peer group not appropriate.
	Inappropriate target value: Target values developed from participant consensus can be inappropriate from
	non-homogeneous testing material or lingering ("masked") outliers. However, occasional inappropriate target
	values occur in every PT program. Inappropriate evaluation interval: An evaluation interval may be
	inappropriately narrow e.g. if ± 2 standard deviation units are used with an extremely precise method;
	the acceptable range may be much narrower than needed for clinical usefulness. Incorrect data entry by PT provider.
Deta	ails of Investigation: Note
-	
No E	Explanation: Attributed to Random Error
Any	Others (explain)
Sum	mary of Investigation: - I de performance found within range.
	per per la company de la compa
	No any some noted we analyser, colibration reaght
	No any specific compraint recieves from parent on
	glery by Ess Sample process.
Was	patient data affected? & Corrective action taken if Patient data was affected.
	Ne
Corr	rective/ Preventive action taken to prevent Reoccurrence
6	14 cose performance willbe 116 116 116 116 116 116 116
	nert bample.
6	l'ucose performance orilbe monitor closely in

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Conclusions	rected outlier due to may be randon	'n
Quality Manage	er/ Team Leader Mustoloin Date: 05/03/2024	
Lab Head	Date: < 3/24	



CHRISTIAN MEDICAL COLLEGE

DEPARTMENT OF CLINICAL BIOCHEMISTRY

CMC EXTERNAL QUALITY ASSURANCE SCHEME MONTHLY SUMMARY REPORT - JANUARY 2024



Lab Name

LUPIN DIAGNOSTICS

Lab No

16726

Constituent Group

Chemistry I

Date of Result Entered :

22/01/2024

PT item

Lyophilized human serum based

Date of Report Published:

06/02/2024

SI.No	Analyte	Method / Principle	Analyzer	No of	AV	Participants		Your	z	u*
31.110	Allalyte	Name	Name	Participants	AV	CV	SDPA	Value	Score	u
1	GLUCOSE	Dry Chemistry	Ortho Clinical Diagnostics Dry Chemistry Series	258	121.13	2.88	3.49	121 mg/dL	-0.04	0.43
2	UREA	Dry Chemistry	Ortho Clinical Diagnostics Dry Chemistry Series	259	38.84	4.30	1.67	36.3 mg/dL	-1.52	0.21
3	CREATININE	Dry Chemistry	Ortho Clinical Diagnostics Dry Chemistry Series	252	1.65	4.24	0.07	1.7 mg/dL	0.71	0.01
4	T.BILIRUBIN	Dry Chemistry	Ortho Clinical Diagnostics Dry Chemistry Series	250	1.94	8.20	0.16	1.7 mg/dL	-1.51	0.02
5	T-PROTEIN	Dry Chemistry	Ortho Clinical Diagnostics Dry Chemistry Series	260	4.96	3.18	0.16	5.3 g/dL	2.15	0.02
6	ALBUMIN	Dry Chemistry	Ortho Clinical Diagnostics Dry Chemistry Series	261	3.01	5.25	0.16	2.9 g/dL	-0.70	0.02
7	CALCIUM	Dry Chemistry	Ortho Clinical Diagnostics Dry Chemistry Series	245	8.53	4.94	0.42	7.8 mg/dL	-1.73	0.05
8	URIC ACID	Dry Chemistry	Ortho Clinical Diagnostics Dry Chemistry Series	252	4.54	3.28	0.15	4.5 mg/dL	-0.27	0.02
9	CHOLESTEROL	Dry Chemistry	Ortho Clinical Diagnostics Dry Chemistry Series	233	100.13	4.87	4.88	115 mg/dL	3.05	0.64
10	TRIGLYCERIDE	Dry Chemistry	Ortho Clinical Diagnostics Dry Chemistry Series	236	169.69	3.80	6.44	165 mg/dL	-0.73	0.84
11	HDL	Dry Chemistry	Ortho Clinical Diagnostics Dry Chemistry Series	232	22.57	6.28	1.42	18 mg/dL	-3.23	0.19
12	SODIUM	Dry Chemistry	Ortho Clinical Diagnostics Dry Chemistry Series	219	129.06	2.51	3.24	130 mmol/L	0.29	0.44
13	POTASSIUM	Dry Chemistry	Ortho Clinical Diagnostics Dry Chemistry Series	211	3.26	2.95	0.10	3.2 mmol/L	-0.62	0.01
14	CHLORIDE	Dry Chemistry	Ortho Clinical Diagnostics Dry Chemistry Series	186	91.99	2.50	2.30	91 mmol/L	-0.43	0.34
15	AST	Dry Chemistry	Ortho Clinical Diagnostics Dry Chemistry Series	260	134.48	5.46	7.35	109 U/L	-3.47	0.91
16	ALT	Dry Chemistry	Ortho Clinical Diagnostics Dry Chemistry Series	262	48.45	6.79	3.29	43 U/L	-1.66	0.41
17	ALP	Dry Chemistry	Ortho Clinical Diagnostics Dry Chemistry Series	255	140.32	7.63	10.70	124 U/L	-1.53	1.34

u* - Method of Uncertainty

Z-Score	Interpretation
z ≤ 2.0	Acceptable
2.0 < z < 3.0	Warning Signal
z ≥ 3.0	Unacceptable (action Signal)

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Date of Investigation: 06 | 02 | 2024

PT/EQAS Set Identification: 22/01/2024 (CME Vellore) Sampk-1 Date of PT/EQAS: 2401/2024
07/01/229
Acceptable/ Unacceptable Results choles terms
Acceptable Result Range:
Previous Trends/ Unacceptable Results from this Analyte/ Test:
No
Oles a Stantian of Ducklamas (Diagon tight)
Classification of Problems: (Please tick) Clerical:
☐ Transcription error (may be pre- or post-analytical factors)
☐ Wrong method has been registered for analysis or method change not updated.
Details of Investigation:
70**
Mathadala da
Methodological ☐ Instrument function checks (e.g., temperatures, blank readings, pressures) not performed as necessary, or
□ Instrument function checks (e.g., temperatures, blank readings, pressures) not performed as necessary, or
□ Instrument function checks (e.g., temperatures, blank readings, pressures) not performed as necessary, or results not within acceptable range.
 Instrument function checks (e.g., temperatures, blank readings, pressures) not performed as necessary, or results not within acceptable range. Scheduled instrument maintenance not performed appropriately.
 Instrument function checks (e.g., temperatures, blank readings, pressures) not performed as necessary, or results not within acceptable range. Scheduled instrument maintenance not performed appropriately. Incorrect instrument calibration.
 Instrument function checks (e.g., temperatures, blank readings, pressures) not performed as necessary, or results not within acceptable range. Scheduled instrument maintenance not performed appropriately. Incorrect instrument calibration. Standards or reagents improperly reconstituted and stored, or inadvertently used beyond expiration date.
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QC material not run at relevant analyte concentration.
☐ Result not within reportable range (linearity) for instrument / reagent system.
□ Obstruction of instrument tubing / orifice by clot or protein.
□ Incorrect incubation times.
Details of Investigation:
None
Technical
□ EQA material improperly reconstituted.
☐ Testing delayed after reconstitution of EQA material (with problem from evaporation or deterioration).
□ Sample not placed in proper order on instrument.
Result released despite unacceptable QC data.
□ QC data within acceptable limits but showed trend suggestive of problem with the assay.
□ Inappropriate quality control limits / rules. If the acceptable QC range is too wide, the probability increases that a result will fall within the acceptable QC range yet exceed acceptable limits for EQA.
□ Manual pipetting / diluting performed inaccurately, at an incorrect temperature or with incorrect diluent.
□ Calculation error or result reported using too few significant digits.
□ Secondary specimen tubes incorrectly labeled.
□ In addition to above discipline specific errors may also occur
Details of Investigation:
None
Problem with PT/EQAS Material
☐ Matrix effects: The performance of some instrument / method combinations may be affected by the matrix of the PT/EQAS sample. This can be overcome to some extent by assessing participants in peer groups – to be done by the PT/EQAS provider.
□ Non-homogenous test material due to variability infill volumes, inadequate mixing, or inconsistent heating of lyophilized specimens.
□ Non-viable samples for microbiology PT/EQAS program.
☐ Haemolysis on an immune-haemtology program samples.
Details of Investigation:
Details of Investigation:

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Prob	lem with PT/EQAS Evaluation
	Peer group not appropriate.
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	Incorrect data entry by PT provider.
Deta	ils of Investigation:
	19nz
-	
Any	Others (explain)
Sum - N	mary of Investigation: b any fisher noted wef analyzer, reagent, Calib action. the peoformance found within acceptable (insite
Was	patient data affected? & Corrective action taken if Patient data was affected.
	No
Corre	rective/Preventive action taken to prevent Reoccurrence Deformance of cholesters) parameter closely nonitor The next hample.

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Conclusions cholestered out	lux susperts du	to meig be	random emor
	,		
Quality Manager/ Team Le	ader Musician D	061042220 Pate:	B
Lab Head	wayte	Date: 6 2 24	OK.

Title	PT/ EQAS EVALUATION RECORD	
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Date of Investigation: 0510212024

PT	te of PT/EQAS: 22/01/2024	
Da	te of PT/EQAS: 22/01/2024	
Ac	ceptable/ Unacceptable Results HD1 (holestero)	
Ac	ceptable Result Range: 22.57 · ± 1.42	
Pre	evious Trends/ Unacceptable Results from this Analyte/ Test:	
	NO	
	assification of Problems: (Please tick)	
	Transcription error (may be pre- or post-analytical factors)	
	Wrong method has been registered for analysis or method change not updated.	
De	tails of Investigation:	
_		
	thodological	
	Instrument function checks (e.g., temperatures, blank readings, pressures) not performed as necessary, or results not within acceptable range.	
	□ Scheduled instrument maintenance not performed appropriately.	
	☐ Standards or reagents improperly reconstituted and stored, or inadvertently used beyond expiration date.	
	Problem with instrument data processing functions. The laboratory may need to contact the manufacturer to	
	evaluate such problems.	
	Problem in manufacture of reagents / standards, or with instrument settings specified by manufacturer	
	Carry-over from previous specimen.	
	Automatic pipettor not calibrated to acceptable precision and accuracy.	
	Imprecision from result being close to detection limit of method.	
	QC material not run within expiration date, or improperly stored.	

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	QC material not run at relevant analyte concentration.
	Result not within reportable range (linearity) for instrument / reagent system.
	Obstruction of instrument tubing / orifice by clot or protein.
	Incorrect incubation times.
De	etails of Investigation:
	None
Te	echnical
	EQA material improperly reconstituted.
	Testing delayed after reconstitution of EQA material (with problem from evaporation or deterioration).
	Sample not placed in proper order on instrument.
	Result released despite unacceptable QC data.
	QC data within acceptable limits but showed trend suggestive of problem with the assay.
	Inappropriate quality control limits / rules. If the acceptable QC range is too wide, the probability increases that a result will fall within the acceptable QC range yet exceed acceptable limits for EQA.
	Manual pipetting / diluting performed inaccurately, at an incorrect temperature or with incorrect diluent.
	Calculation error or result reported using too few significant digits.
	Secondary specimen tubes incorrectly labeled.
	In addition to above discipline specific errors may also occur
	etails of Investigation:
Pr	oblem with PT/EQAS Material
	Matrix effects: The performance of some instrument / method combinations may be affected by the matrix of
	the PT/EQAS sample. This can be overcome to some extent by assessing participants in peer groups – to be done
	by the PT/EQAS provider.
	Non-homogenous test material due to variability infill volumes, inadequate mixing, or inconsistent heating of
	lyophilized specimens.
	Non-viable samples for microbiology PT/EQAS program.
	Haemolysis on an immune-haemtology program samples.
De	etails of Investigation:

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Pro	blem with PT/EQAS Evaluation		
	Incorrect data entry by PT provider.		
De	ails of Investigation:		
	None		
	or Others (explain)		
Su			
	nmary of Investigation: Tou performance Lound within acceptable reinge. No any pour notes well thalyser, Calibration, reago No any trend nord in HPL previoually		
Wa	nmary of Investigation: The Performance found within acceptable reinge. No any row notes well thanks. Calibration, reage. No any trend nored in HDL previously. Is patient data affected? & Corrective action taken if Patient data was affected. No		
Wa	nmary of Investigation: The performance bound within acceptable reinge. No any row notes well theolyses. Calibration, reage. No any trend nord in HDL previously. Is patient data affected? & Corrective action taken if Patient data was affected.		

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Cama	lusions
CONC	IIISIONS.

duspected outlier du do may be rendom error monster preformance closely in nest sample.

Quality Manager/ Team Leader mulaloim

Date:

06/07/2024

Lab Head

Date: 4/2/4

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Date of Investigation: 06/02/2024

Date of PT/EQAS: 22/01/2024	- 1)
Date of PT/EQAS: 22/01/2024	
Acceptable/ Unacceptable Results As T	
Acceptable Result Range:	
Previous Trends/ Unacceptable Results from this Analyte/ Test:	A
Ala	600
	C),
Classification of Problems: (Please tick) Clerical:	
☐ Transcription error (may be pre- or post-analytical factors)	
☐ Wrong method has been registered for analysis or method chang	e not updated.
Details of Investigation:	
Methodological Instrument function checks (e.g., temperatures, blank readings, pres	asures) not performed as necessary or
☐ Instrument function checks (e.g., temperatures, blank readings, pres	ssures) not performed as necessary, or
☐ Instrument function checks (e.g., temperatures, blank readings, presents not within acceptable range.	ssures) not performed as necessary, or
 Instrument function checks (e.g., temperatures, blank readings, pres results not within acceptable range. Scheduled instrument maintenance not performed appropriately. 	ssures) not performed as necessary, or
 Instrument function checks (e.g., temperatures, blank readings, presented in the results not within acceptable range. Scheduled instrument maintenance not performed appropriately. Incorrect instrument calibration. 	
 Instrument function checks (e.g., temperatures, blank readings, preserved results not within acceptable range. Scheduled instrument maintenance not performed appropriately. Incorrect instrument calibration. Standards or reagents improperly reconstituted and stored, or in 	
 Instrument function checks (e.g., temperatures, blank readings, preserves results not within acceptable range. Scheduled instrument maintenance not performed appropriately. Incorrect instrument calibration. Standards or reagents improperly reconstituted and stored, or in Instrument probes misaligned. 	advertently used beyond expiration date.
 Instrument function checks (e.g., temperatures, blank readings, preservesults not within acceptable range. Scheduled instrument maintenance not performed appropriately. Incorrect instrument calibration. Standards or reagents improperly reconstituted and stored, or in Instrument probes misaligned. Problem with instrument data processing functions. The laboratory 	advertently used beyond expiration date.
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 Instrument function checks (e.g., temperatures, blank readings, preservesults not within acceptable range. Scheduled instrument maintenance not performed appropriately. Incorrect instrument calibration. Standards or reagents improperly reconstituted and stored, or in Instrument probes misaligned. Problem with instrument data processing functions. The laboratory evaluate such problems. Problem in manufacture of reagents / standards, or with instrument. 	advertently used beyond expiration date. may need to contact the manufacturer to ent settings specified by manufacturer

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QC material not run at relevant analyte concentration.
□ Result not within reportable range (linearity) for instrument / reagent system.
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□ Incorrect incubation times.
Details of Investigation:
Technical
□ EQA material improperly reconstituted.
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Details of Investigation:
More Mark
Problem with PT/EQAS Material
□ Matrix effects: The performance of some instrument / method combinations may be affected by the matrix of
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Details of Investigation:

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_	
Pro	blem with PT/EQAS Evaluation
	Peer group not appropriate.
	Inappropriate target value: Target values developed from participant consensus can be inappropriate from non-homogeneous testing material or lingering ("masked") outliers. However, occasional inappropriate target values occur in every PT program. Inappropriate evaluation interval: An evaluation interval may be inappropriately narrow e.g. if \pm 2 standard deviation units are used with an extremely precise method; the acceptable range may be much narrower than needed for clinical usefulness.
	Incorrect data entry by PT provider.
Det	rails of Investigation:
	Others (explain)
Sui	Mo any issue found with soe performance. No any issue found we analyzer, celibrotian, reagent
Wa	s patient data affected? & Corrective action taken if Patient data was affected.
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