Metropolis Healthcare Ltd., EQAS

KRSNAA DIAGNOSTICS LTD KAPURTHALA (1043)

Outlier And Analyte Summary Report

Outlier Details For Cycle No 240104 and Sample No 01 **Report Date :** 10/07/2024

Analyte	Instrument	Result Value	Standard Unit	Z-Score
No Outlier				

Legend @ : z score ≤ 2.0 - Acceptable

! : 2.0 < z score < 3.0 - Warning

X : z score ≥3 - Unacceptable

: Not Evaluated

: Delayed Result Entry

* : Not considered for evaluation.

Problem Classification: _____

Corrective Action: _____

Reviewed by: _____ **Dated:** _____

Metropolis Healthcare Ltd., EQAS

KRSNAA DIAGNOSTICS LTD KAPURTHALA (1043)

Outlier And Analyte Summary Report

Result Details For Cycle No 240104 and Sample No 01

Report Date : 10/07/2024

Instrument : **Diasys 200 Pro**

Analyte	Standard Unit	Result Value	Mean	Z-Score	RMZ
@ Urea	mg/dl	46.70	40.67	1.95	0.77
@ Creatinine	mg/dl	1.10	0.85	0.95	1.44
@ Bilirubin Total	mg/dl	0.30	0.45	-0.62	0.45
@ Bilirubin Direct	mg/dl	0.13	0.22	-1.00	-0.73
@ Total Protein	g/dL	6.99	6.81	0.66	0.10
@ Albumin	g/dL	4.00	4.20	-0.37	0.27
@ Uric Acid	mg/dl	4.45	4.36	-0.05	-0.11
@ Calcium	mg/dl	8.99	8.82	0.44	-0.22
@ Cholesterol	mg/dl	172.00	170.36	-0.04	-0.31
@ Triglycerides	mg/dl	150.80	137.36	0.75	0.44
@ HDL	mg/dl	34.00	31.25	-0.27	0.16
@ LDL	mg/dl	90.36	99.01	-1.14	-0.72
@ ALT	U/L	24.40	21.41	0.96	0.25
@ AST	U/L	37.95	41.16	0.11	-0.33
@ ALP	U/L	84.83	70.28	0.25	0.81

Instrument : **ACCULYTE-3P**

Analyte	Standard Unit	Result Value	Mean	Z-Score	RMZ
@ Chloride	mmol/L	114.42	114.30	0.28	0.53
@ Sodium	mmol/L	164.86	162.40	0.23	-0.48
@ Potassium	mmol/L	6.50	6.31	0.42	-0.10

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	18
Not Evaluated Parameters	0
Evaluated Parameters	18
Outlier Parameters (X)	0
EQAS Score Biochemistry	100.00 %

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

Metropolis Healthcare Ltd., EQAS

KRSNAA DIAGNOSTICS LTD KAPURTHALA (1043)

Outlier And Analyte Summary Report

Outlier Details For Cycle No 240104 and Sample No 02 **Report Date :** 10/07/2024

Analyte	Instrument	Result Value	Standard Unit	Z-Score
! Urea	Diasys 200 Pro	34.10	mg/dl	2.12
! Creatinine	Diasys 200 Pro	1.30	mg/dl	2.14

Legend @ : z score ≤ 2.0 - Acceptable

! : 2.0 < z score < 3.0 - Warning

X : z score ≥3 - Unacceptable

: Not Evaluated

: Delayed Result Entry

* : Not considered for evaluation.

Problem Classification: _____

Corrective Action: _____

Reviewed by: _____ **Dated:** _____

Metropolis Healthcare Ltd., EQAS

KRSNAA DIAGNOSTICS LTD KAPURTHALA (1043)

Outlier And Analyte Summary Report

Result Details For Cycle No 240104 and Sample No 02

Report Date : 10/07/2024

Instrument : **Diasys 200 Pro**

Analyte	Standard Unit	Result Value	Mean	Z-Score	RMZ
@ Glucose	mg/dl	93.10	71.18	1.08	0.32
! Urea	mg/dl	34.10	26.57	2.12	0.77
! Creatinine	mg/dl	1.30	0.99	2.14	1.44
@ Bilirubin Total	mg/dl	0.30	0.35	0.04	0.45
@ Bilirubin Direct	mg/dl	0.04	0.14	-1.10	-0.73
@ Total Protein	g/dL	7.81	7.58	0.64	0.10
@ Albumin	g/dL	4.00	4.19	-0.23	0.27
@ Uric Acid	mg/dl	4.64	4.32	0.07	-0.11
@ Calcium	mg/dl	8.77	8.55	0.03	-0.22
@ Cholesterol	mg/dl	173.00	162.79	0.25	-0.31
@ Triglycerides	mg/dl	167.00	135.91	1.73	0.44
@ HDL	mg/dl	31.00	29.24	-0.16	0.16
@ LDL	mg/dl	90.55	89.65	-0.37	-0.72
@ ALT	U/L	5.40	5.92	-0.17	0.25
@ AST	U/L	13.01	13.94	-0.51	-0.33
@ ALP	U/L	59.66	45.36	0.26	0.81

Instrument : **ACCULYTE-3P**

Analyte	Standard Unit	Result Value	Mean	Z-Score	RMZ
@ Chloride	mmol/L	104.45	105.34	0.25	0.53
@ Sodium	mmol/L	136.87	133.36	0.23	-0.48
@ Potassium	mmol/L	5.31	5.13	0.31	-0.10

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	19
Not Evaluated Parameters	0
Evaluated Parameters	19
Outlier Parameters (X)	0
EQAS Score Biochemistry	100.00 %

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

Krsnaa Diagnostics Ltd,
Sultanpur Road Civil
Hospital Kapurthala
Pin Code-144601

19/7/24
Acceptable Res
1.30 mg

19/7/24
Acceptable Results
34.10 mg/dl

Sample receipt

	YES.	NO	NA
	☑	☐	☐
	☑	☐	☐
			☐

Krsnaa Diagnostics Ltd,
Sultanpur Road Civil
~~Hospital Kapurthala~~
Pin Code-144601

INTER LABORATORY COMPARISON RESULTS

Sr. No	Date	Analyte Name	Barcode ID	Lab Result	Unit	ILC lab Result	Unit	Acceptability Criteria	Observed CV %	Acceptability range	Result Acceptable Yes / No	Done by	Reviewed by
1	19/7/24	Urea	116323358	28.10	mg/dl	26.50	mg/dl	22.48 – 33.72	5.62%	5.6%	Yes	Bhav	Balw
2	19/7/24	creatinine	116323358	1.00	mg/dl	1.00	mg/dl	0.8–1.2	0.2%	0%	Yes	Bhav	Ba

Qualitative: Clinically comparable results shall be Concordance.
Clinically not comparable results shall be Disconcordance.

Quantitative: Acceptability: 10 %. (As per NABL 112)

Sign of Doctor

0.936

Krsnaa Diagnostics Ltd,
Sultanpur Road Civil
Hospital Kapurthala
Pin Code-144601

KRSNAA DIAGNOSTICS
LET'S DO GOOD

CONTROLLED COPY KDL QA VERIFIED

Proficiency Testing Outlier Investigation Form

Laboratory Name : Krsnaa Diagnostics PB Kapurthala

Date	Department	Test Analyte	Reported Results
19/7/24	Biochemistry	Urea	26.57 mg/dl

Acceptable Results
34.10 mg/dl

Sample receipt

	YES	NO	NA
Was the kit received in good condition?	☑	☐	☐
Was the correct program/cycle received?	☑	☐	☐
Was the kit stored at the proper temperature following receipt?	☑	☐	☐

Sample Preparation:

Who Prepared sample? Bhawna.

Date Prepared 26/6/24

	YES	NO	NA
Was the correct reconstitution instruction followed (handling, time, temperature)?	☑	☐	☐
Was a volumetric Class A (or calibrated) pipette used for reconstitution?	☑	☐	☐
Was distilled or deionized water used for reconstitution?	☑	☐	☐
Was the sample mixed according to the package insert prior to testing?	☑	☐	☐

Sample Processing:

Who processed test? Bhawna

Date of processing 26/6/24

	YES	NO	NA
Was the correct sample number tested?	☑	☐	☐
Was the sample at room temperature?	☑	☐	☐
Was the person running the test current in their training?	☑	☐	☐
Was the affected test run within the stability claim listed in the package insert	☑	☐	☐

Reporting Results:

Who reported Results Bhawna.

Date reported . 28/6/24

Issued by: Vinod Lonkar		Issue Date: 01.03.2023	
Approved by: Dr. Manish Karekar			
Doc No: GEN 03	Version No: 1	Amend No: --	Amend Date

Krsnaa Diagnostics Ltd,
Sultanpur Road Civil
Hospital Kapurthala
Pin Code-144601

	YES	NO	NA
- Was the test configuration correct (instrument, method and reagent)?	☑	☐	☐
- Have the results been reported correctly (match instrument print out)?	☑	☐	☐
- Was the correct unit reported?	☑	☐	☐
- Was the decimal symbol placed correctly when reported?	☑	☐	☐
- Was the reported result within the instrument's linear range?	☑	☐	☐
- Was the calculation of the reported result done correctly?	☑	☐	☐

Internal QC:

	YES	NO	NA
- Was IQC within an acceptable range on the day that the EQAS sample was run?	☑	☐	☐
- Where there any shifts or trends in IQC just before/after the EQAS sample was run?	☐	☑	☐

IQC on the day on EQAS sample

	Reading	MEAN	SD	CV	Z Score		
Level-I	43.5	35.95	8.02				
Level-II	156	150	16.5				
Level-III							

Previous month IQC

	Mean	SD	CV	Z Score	
Level-I	30.2	1.32	4.37%		
Level-II	150	16.5	5.3%		
Level-III					

Previous three month EQAS reports

	Z score	BIAS	RMZ		
Month-I					
Month-II					
Month-III					

Calibration:

	YES	NO	NA
- Was the last calibration acceptable?	☑	☐	☐
- Was the last calibration within the manufacturer's recommended dating?	☑	☐	☐

Reagent:

Reagent lot / exp.

	Lot	Expiration

Issued by : Vinod Lonkar		Issue Date : 01.03.2023	
Approved by : Dr. Manish Karekar			
Doc No :GEN 03	Version No : 1	Amend No : --	Amend Date

	YES	NO	NA
- Was the test reagent stored correctly?	☑	☐	☐
- Was the test reagent properly prepared?	☑	☐	☐
- Was the test reagent within manufacturer's dating?	☑	☐	☐

Instrument:

	YES	NO	NA
- Was daily maintenance performed on the day that the EQAS sample was run?	☑	☐	☐
- Was the person performing maintenance current on training?	☑	☐	☐
- Was the instrument operating correctly on the day the sample was tested?	☑	☐	☐
- Was the lab environment acceptable for the instrument (temperature, humidity, electrical, etc.)?	☑	☐	☐

Sample Retest:

Who retested sample? Bhawna **Date tested**

	YES	NO	NA
- Was the EQAS sample retested following receipt of EQAS sample report?	☐	☐	☑
- If yes, was the result within acceptable limits for the EQAS sample?	☐	☐	☑

EQAS Evaluation:

	YES	NO	NA
- Inappropriate peer group or comparator?	☐	☐	☐
- Inappropriate evaluation criteria, e.g. narrow limits due to use of a precise method or instrument.	☐	☐	☐

Issued by : Vinod Lonkar		Issue Date : 01.03.2023	
Approved by : Dr. Manish Karekar			
Doc No: GEN 03	Version No : 1	Amend No. --	Amend Date

SOP

	YES	NO	NA
Was the SOP followed correctly?	☑	☐	☐

Staining performed and interpreted correctly?

☐ YES ☐ NO ☑ NA

Interpretation of microscopic examination interpreted correctly?

☐ YES ☐ NO ☑ NA

Lot Verification

Type of error Identified - Temp. issue

Root cause of the problem – Sample Recived with high temp.

Corrective Action → GLC Done For urea.

[LAB 11632333 58 → 98.10mg/dl]. And [GLC LAB 26.50mg/dl].

Signature and Name of Technologist / Section Head

Bhawn

Review by QM / HO / TM: Sign and Name

Issued by: Vinod Lonkar Vinod			Issue Date: 01.03.2023
Approved by: Dr. Manish Karekar Manish.			
Doc No: GEN 03	Version No: 1	Amend No: --	Amend Date:

Krsnaa Diagnostics Ltd,
Sultanpur Road Civil
Hospital Kapurthala
Pin Code-144601

Proficiency Testing Outlier Investigation Form

Laboratory Name : Krsnaa Diagnostic PB Kapurthala

Date	Department	Test Analyte	Reported Results
19/7/24	Biochemistry	creatinine	0.99 mg/dl

Acceptable Results
1.30 mg/dl

Sample receipt

	YES	NO	NA
Was the kit received in good condition?	☑	☐	☐
Was the correct program/cycle received?	☑	☐	☐
Was the kit stored at the proper temperature following receipt?	☑	☐	☐

Sample Preparation:

Who Prepared sample? Bhawna

Date Prepared 26/6/24

	YES	NO	NA
Was the correct reconstitution instruction followed (handling, time, temperature)?	☑	☐	☐
Was a volumetric Class A (or calibrated) pipette used for reconstitution?	☑	☐	☐
Was distilled or deionized water used for reconstitution?	☑	☐	☐
Was the sample mixed according to the package insert prior to testing?	☑	☐	☐

Sample Processing:

Who processed test? Bhawna

Date of processing 26/6/24

	YES	NO	NA
Was the correct sample number tested?	☑	☐	☐
Was the sample at room temperature?	☑	☐	☐
Was the person running the test current in their training?	☑	☐	☐
Was the affected test run within the stability claim listed in the package insert	☑	☐	☐

Reporting Results:

Who reported Results Bhawna

Date reported . 28/6/24

Issued by : Vinod Lonkar Vinod		Issue Date : 01.03.2023	
Approved by : Dr. Manish Karekar Manish			
Doc No. GEN 03	Version No : 1	Amend No. --	Amend Date

	YES	NO	NA
- Was the test configuration correct (instrument, method and reagent)?	☑	☐	☐
- Have the results been reported correctly (match instrument print out)?	☑	☐	☐
- Was the correct unit reported?	☑	☐	☐
- Was the decimal symbol placed correctly when reported?	☑	☐	☐
- Was the reported result within the instrument's linear range?	☑	☐	☐
- Was the calculation of the reported result done correctly?	☑	☐	☐

Internal QC:

	YES	NO	NA
- Was IQC within an acceptable range on the day that the EQAS sample was run?	☑	☐	☐
- Where there any shifts or trends in IQC just before/after the EQAS sample was run?	☐	☑	☐

IQC on the day on EQAS sample

	Reading	MEAN	SD	CV	Z Score	
Level-I	1.6	1.33	0.145		+1SD	
Level-II	5.1	4.88	0.533			
Level-III						

Previous month IQC

	Mean	SD	CV	Z Score	
Level-I	1.38	0.16	6.52%		
Level-II	4.88	0.553	10.14%		
Level-III					

Previous three month EQAS reports

	Z score	BIAS	RMZ		
Month-I					
Month-II					
Month-III					

Calibration:

	YES	NO	NA
- Was the last calibration acceptable?	☑	☐	☐
- Was the last calibration within the manufacturer's recommended dating?	☑	☐	☐

Reagent:

Reagent lot / exp.

Lot _____ Expiration _____

Issued by : Vinod Lonkar			Issue Date : 01.03.2023
Approved by : Dr. Manish Karekar			
Doc No. GEN 03	Version No : 1	Amend No. --	Amend Date :

Krsnaa Diagnostics Ltd,
Sultanpur Road Civil
Hospital Kapurthala
Pin Code-144601

	YES	NO	NA
Was the test reagent stored correctly?	☑	☐	☐
Was the test reagent properly prepared?	☑	☐	☐
Was the test reagent within manufacturer's dating?	☑	☐	☐

Instrument:

	YES	NO	NA
Was daily maintenance performed on the day that the EQAS sample was run?	☑	☐	☐
Was the person performing maintenance current on training?	☑	☐	☐
Was the instrument operating correctly on the day the sample was tested?	☑	☐	☐
Was the lab environment acceptable for the instrument (temperature, humidity, electrical, etc.)?	☑	☐	☐

Sample Retest:

Who retested sample? _____ **Date tested** _____

	YES	NO	NA
Was the EQAS sample retested following receipt of EQAS sample report?	☐	☐	☑
If yes, was the result within acceptable limits for the EQAS sample?	☐	☐	☑

EQAS Evaluation:

	YES	NO	NA
Inappropriate peer group or comparator?	☐	☐	☐
Inappropriate evaluation criteria, e.g. narrow limits due to use of a precise method or instrument.	☐	☐	☐

Krsnaa Diagnostics Ltd,
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SOP

	YES	NO	NA
Was the SOP followed correctly?	☑	☐	☐

Staining performed and interpreted correctly?

☐ YES ☐ NO ☑ NA

Interpretation of microscopic examination interpreted correctly?

☐ YES ☐ NO ☑ NA

Lot Verification -

Type of error Identified - Temp. Issue

Root cause of the problem Sample Recieved with High Temp.

Corrective Action → GLC Done for Creatinine

[LAB 116323358 → 1.00 mg/dl] And [GLC 1.00 mg/dl]

Signature and Name of Technologist / Section Head

Bhawna

Review by QM / HO / TM: Sign and Name