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## AUTOCHEM XPERT AUTOMATIC BIOCHEMISTRY ANALYZER

### INSTALLATION QUALIFICATION PROTOCOL DOCUMENT

The purpose of this installation qualification protocol is to define the qualifications and the acceptance standard in order to verify that instrument installation, normal operation and function of the AUTOChem Xpert automatic biochemistry analyzer in the laboratory. The satisfactory outcome of this procedure assures that the system functions according to the parameters.

The results of these installation activities are the base for the subsequent Operational & Performance Qualification Protocol.

The customer has to check that all the controls are correct and will subscribe the validity and the acceptance date.

#### Protocol Prepared By

Designated Company Person Name : Mr. Allu Manikanta Reddy  
Designation : Application Specialist  
Date : 13/09/2022

#### Protocol Prepared For

Customer / Contact Person Name : A. lourdu prasanth  
Hospital / Institution : Medray diagnostic center  
Address : Doopanahalli, Indiranagar, Bengaluru, Karnataka

GEN/APP/QC-001/IQ-AUTOCHEM XPERT/V.1.0

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CIN :U24230KA2015PTC078753 | [www.genworkshealth.com](http://www.genworkshealth.com)

### INSTRUMENT INSTALLATION QUALIFICATION PROTOCOL

AUTOChem Xpert automatic biochemistry analyzer found to be in satisfactory installation condition at biochemistry department with comply the installation requirement based on the below described items.

S. No	Installation Requirement Item	Description	Requirement Qualification	Remark
1.	Ground requirement	The ground of the installation site should be flat and bear at least 1000kg weight.	Satisfactory	Nil
2.	Sun Light	Direct sunlight may cause heating of reaction plate, refrigeration of reagent storehouse and abnormal working of some sensors	Satisfactory	Nil
3.	Power	AC220V $\pm$ 10%	Satisfactory	Nil
4.	Ground	N-G $\leq$ 5V, L-G $\sim$ 220V	Satisfactory	Nil
5.	External ground	If the onsite power supply cannot be grounded, the n-g voltage is less than 5V, and the l-g voltage is about 220V. The grounding voltage on the wiring board can be measured when the n-g voltage is less than 5V and the l-g voltage is about 220V.	Satisfactory	Nil
6.	Indoor temperature/ humidity	Temperature 15-30°C Humidity 35-85%RH	Satisfactory	Nil
7.	Air conditioner available	Air conditioner	Satisfactory	
8.	Drainage method	Tank or outfall	Satisfactory	

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9.	Drainage facilities	Within 1.5m from the host, below 450 high, caliber shall not be less than 50mm. The waste liquid pipe shall be cut according to the actual distance and shall not be knotted, sunk into the waste liquid, or connected with three pipes of two waste liquid pipes.	Satisfactory	Nil
10.	Water supply	400 speed and below instrument can self-suction water, 600-800 speed instrument cannot self-suction water, need to provide 100-300kpa pressure.	Satisfactory	Tank water or equipment
11.	Water Equipment	Within 1.5m from the host, conductivity $\leq 1\mu\text{s}/\text{cm}$ or conductivity $\leq 0.5\text{ppm}$ . 100-200 speed requires 15L/h, 300-400 speed requires 20L/h, water pressure $\leq 100\text{KPa}$ . 600-800 speed requires 40L/h, water pressure 100-300kpa.	Satisfactory	Nil
12.	Vacuum vasculature	Only standard tubes with red caps or coagulation-promoting tubes with orange caps can be used on the automatic biochemical analyzer. The use of other types of vacuum vascularization will lead to inaccurate test results and reduced reaction cup life	Satisfactory	Nil
13.	Computer	CPU 2.2 GHz above; Memory 4GB or above; More than 500GB hard disk; Cable inlet	Satisfactory	Nil
14.	Computer System	Windows 7, Windows 8, Windows 10 professional or flagship	Satisfactory	Nil

**Equipment Information:-**

Equipment Name : AUTOChem Xpert Automatic biochemistry analyzer  
Model/Type : AUTOChem Xpert  
Serial No : AES2K2KH04116YA  
Equipment Installed Location : Dept. of Biochemistry

Installation date : 13/09/2022

**Installation Information: -**

Name of the Instrument : AUTOChem Xpert Automatic biochemistry analyzer  
Physical Verification of the instrument before installation : Satisfactory  
Description of the equipment along with the components : Computer, Keyboard & accessories.  
Date of Installation : 13/09/2022  
Name of Engineer (S) : Mr. Nagaraja V

**Installation conclusion:**

Overall instrument installation requirements found to be satisfied, handed over the instrument for operation & performance qualification.

Installation Certificate : Enclosed

Engineer (S) Sign : Manikandas

Date : 13/09/2022

Installation Protocol Remarks:

Action to be taken (if any) :

Designated Person Name: Allu Manikanta Reddy

Laboratory Personal Name: A. lourdu prasanth

Designation: Application Specialist

Designation: Laboratory In-charge

Signature: Manikandas Signature: A. Lourdu Prasanth

Date: 13/09/23 Date: 13/09/22

Attachments:

1. Instrument Installation certificate
2. Instrument User manual



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## AUTOCHEM XPRT AUTOMATIC BIOCHEMISTRY ANALYZER

### PERFORMANCE QUALIFICATION PROTOCOL DOCUMENT

The purpose of this performance qualification protocol is to define the qualifications and the acceptance standard in order to verify the normal operation and function of the AUTOChem Xpert automatic biochemistry analyzer in the laboratory. The satisfactory outcome of this procedures assures that the system functions according to the parameters.

The results of that installation qualification protocol and operation qualification protocol are the base for the subsequent Performance Qualification Protocol.

The performance qualification protocol will verify the instrument test results accuracy and precision by reviewing the calibration & controls results within the acceptance limits.

The customer has to check that all the controls are correct and will subscribe the validity and the acceptance date.

#### Protocol Prepared By

Designated Company Person Name : Mr. Allu Manikanta Reddy

Designation : Application Specialist

Date : 13/09/2022

#### Protocol Prepared For

Customer / Contact Person Name : A. lourdu prasanth

Hospital / Institution : Medray diagnostics center

Address : Doopanahalli, Indiranagar, Bengaluru, Karnataka

GEN/APP/QC-003/PQ-AUTOCHEM XPRT/V.1.0

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**Equipment Information: -**

Equipment Name : **AUTOChem Xpert Automatic biochemistry analyzer**  
Model/Type : **AUTOChem Xpert**  
Serial No : **AES2K2KH04116YA**  
Equipment Installed Location : **Dept. of Biochemistry**  
Installation date : **13/09/2022**

**INSTRUMENT PERFORMANCE QUALIFICATION PROTOCOL**

**1. Performance Qualification Procedures**

**1. Assay Calibration & Calibration Verification:**

**Test Purpose:**

To calibrate testing parameters and see the performance of quality control material on the equipment as per the specifications given.

**Procedure:**

- a. Assay calibration as per the manufacturer's protocol.
- b. After successful calibration, appropriate controls were tested as duplicate, and success of calibration was verified, as the obtained control values were well within the expected limits

**2. Intra assay Precision Verification:**

**Test Purpose:**

To see the precision performance of the equipment as per the given protocol and see the accuracy of obtained quality control value in comparison with the expected mean values.



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**Procedures:**

- a. Intra assay precision verification –Perform the precision controls on single in 10 replicates.
- b. Calculate the Mean, SD and CV%, compare obtained values with manufacturer data.

**3. Method Comparison (Diagnostics Accuracy Verification):**

**Test Purpose:**

Comparing a new method with an established method, to assess whether the new measurements are comparable with existing system.

**Procedure:**

- a. Process 10 samples with different concentration
- b. Calculate correlation coefficient (r).

**Conclusion:**

The controls results are obtained as per specifications & tolerance ranges. Verified the calibration & controls results according to the specific limits and considered the satisfactory results herewith certificate that AUTOChem Xpert automatic biochemistry analyzer operates correctly according to the instrument specifications.

With the reference to the installation, operation & performance procedures and studies carried out in the laboratory, AUTOChem Xpert automatic biochemistry analyzer meets all criteria outlined for respective protocol.



User operation & maintenance hands-on training was given to those respective technical personal in the laboratory according to the protocol.

Performance Protocol Remarks :

Action to be taken (if any) :

Designated Person Name: Allu Manikanta Reddy

Laboratory Personal Name: A. lourdu prasanth

Designation: Application Specialist

Designation: Laboratory In-charge

Signature: Manikanta

Signature: A. Lourdu Prasanth

Date: 13/09/22

Date: 13/09/22

**Attachments:**

1. Calibration & Control result raw data
2. User Operation Training Certificate



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## AUTOCHEM XPERT AUTOMATIC BIOCHEMISTRY ANALYZER OPERATION QUALIFICATION PROTOCOL DOCUMENT

The purpose of this operation qualification protocol is to define the qualifications and the acceptance standard in order to verify the normal operation and function of the AUTOChem Xpert automatic biochemistry analyzer in the laboratory. The satisfactory outcome of this procedure assures that the system functions according to the parameters.

The results of that installation activity are the base for the subsequent of Operational Qualification Protocol.

The operational qualification protocol will verify the review of the start-up procedure, Operation processes, instrument routine maintenance, instrument safety handling in the laboratory.

The customer has to check that all the controls are correct and will subscribe the validity and the acceptance date.

### Protocol Prepared By

Designated Company Person Name : Mr. Allu Manikanta Reddy  
Designation : Application Specialist  
Date : 13/09/2022

### Protocol Prepared For

Customer / Contact Person Name : A. lourdu prasanth  
Hospital / Institution : Medray diagnostic center  
Address : Doopanahalli, Indiranagar, Bengaluru, Karnataka

GEN/APP/QC-002/OQ-AUTOCHEM XPERT/V.1.0

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CIN :U24230KA2015PTC078753 | www.genworkshealth.com

**Equipment Information: -**

Equipment Name : AUTOChem Xpert Automatic biochemistry analyzer  
Model/Type : AUTOChem Xpert  
Serial No : AES2K2KH04116YA  
Equipment Installed Location : Dept. of Biochemistry  
Installation date : 13/09/2022

**INSTRUMENT OPERATIONAL QUALIFICATION PROTOCOL**

**1. OPERATION QUALIFICATION PROCEDURES**

- Instrument Turn On and Turn Off Procedures – To check the instrument normal start up processes while switch on the main switch, instrument switch and refrigeration switch. After turning on the analyzer ensure the instrument thermostat module temperature optimization.
- Verified software logon & logoff options between management to operation and vice versa.
- Verified instrument “sleep” mode condition & complete “shutdown” and “startup” processes.
- Verified onboard “Diluent” & “Detergent”.
- Verified the prepared “Xpert wash” status.

**1.1 Preliminary Operation**

- Carry out the maintenance procedures : yes
- Check the reaction disk temperature : yes
- Check the reagent disk temperature : yes
- Perform analyzer reset : yes
- Perform Air Purge : yes
- Perform Wash cells (All) : yes
- Carry out the Cell blank : yes

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- If necessary, check the probes vertical & horizontal checkup : yes

### 1.2 Parameter Setup

- Routine parameter setting according to the reagent's instruction : yes
- Reagent inventory set up : yes
- Calibration parameter set up : yes
- QC parameter set up : yes

### 1.3 Reagent Preparation and place reagent disk

- Reagent preparation : Done
- Place the small (S) & large (L) reagents bottle : Use all the bottles
- Execute Barcode scan and Volume check of the reagents : yes

### 1.4 Calibration & QC Materials Preparation

- Calibration materials preparation according to the instruction : yes
- QC materials preparation according to the instruction : yes

### 1.5 Calibration & QC Request

- Place the distilled water, calibrator & controls solution with appropriate position : yes
- Run the calibration test for relevant parameters : yes
- Run the QC test for relevant the parameters : yes
- Repeat the calibration & QC if get any alert or alarm message : Nil

1.6 Calibration & QC verification

Check the calibration & control results

: Done

**Conclusion:**

With the reference to the instrument operation procedures and studies carried out in the laboratory, the AUTOChem Xpert automatic biochemistry analyzer meets all criteria outlined for respective protocol.

Operation Protocol Remarks:

Action to be taken (if any):

Designated Person Name: Allu Manikanta Reddy

Laboratory Personal Name: A. lourdu prasanth

Designation: Application Specialist

Designation: Laboratory In-charge

Signature: Manikanta Reddy

Signature: A. Lourdu Prasanth

Date: 13/09/22

Date: 13/09/22

**Attachments:**

1. Reagent pack inserts
2. Calibrator & QC value sheet

**ACCURACY :**

**Assay:** ALB  
**Control:** DIACON P  
**Lot Number:** 812101  
 31-05-  
**Expiry Date:** 2024

Control Name	Measured Value 1	Measured Value 2	Measured Value Mean	Expected Mean	Expected Range	Units	Status
DIACON P	4.56	4.6	4.58	4.6	3.54-5.65	g/dL	Acceptable

**Assay:** ALT/GPT  
**Control:** DIACON P  
**Lot Number:** 812101  
 31-05-  
**Expiry Date:** 2024

Control Name	Measured Value 1	Measured Value 2	Measured Value Mean	Expected Mean	Expected Range	Units	Status
DIACON P	113	108	110.5	118	91.1-146	U/L	Acceptable

**Assay:** ALKP  
**Control:** DIACON P  
**Lot Number:** 812101  
 31-05-  
**Expiry Date:** 2024

Control Name	Measured Value 1	Measured Value 2	Measured Value Mean	Expected Mean	Expected Range	Units	Status
DIACON P	177	182	179.5	204	153-255	U/L	Acceptable

**Assay:** DBIL  
**Control:** DIACON P  
**Lot Number:** 812101  
 31-05-  
**Expiry Date:** 2024

Control Name	Measured Value 1	Measured Value 2	Measured Value Mean	Expected Mean	Expected Range	Units	Status
DIACON P	1.76	1.8	1.78	1.9	1.42-2.38	mg/dL	Acceptable

**Assay:** TBIL  
**Control:** DIACON P  
**Lot Number:** 812101  
 31-05-  
**Expiry Date:** 2024

Control Name	Measured Value 1	Measured Value 2	Measured Value Mean	Expected Mean	Expected Range	Units	Status
DIACON P	4.9	4.95	4.925	4.5	3.33 - 5.67	mg/dL	Acceptable

**Assay:** CREA  
**Control:** DIACON P  
**Lot Number:** 812101  
 31-05-  
**Expiry Date:** 2024

Control Name	Measured Value 1	Measured Value 2	Measured Value Mean	Expected Mean	Expected Range	Units	Status
DIACON P	4.46	4.59	4.525	4.75	3.7-5.79	mg/dL	Acceptable

**Assay:** GLUC  
**Control:** DIACON P  
**Lot Number:** 812101  
 31-05-  
**Expiry Date:** 2024

Control Name	Measured Value 1	Measured Value 2	Measured Value Mean	Expected Mean	Expected Range	Units	Status
DIACON P	282.6	294	288.3	291	244-338	mg/dL	Acceptable

**Assay:** TP  
**Control:** DIACON P  
**Lot Number:** 812101  
 31-05-  
**Expiry Date:** 2024

Control Name	Measured Value 1	Measured Value 2	Measured Value Mean	Expected Mean	Expected Range	Units	Status
DIACON P	8	7.8	7.9	8.21	7.31-9.12	g/dL	Acceptable



**Assay:** UREA  
**Control:** DIACON P  
**Lot Number:** 812101  
 31-05-  
**Expiry Date:** 2024

Control Name	Measured Value 1	Measured Value 2	Measured Value Mean	Expected Mean	Expected Range	Units	Status
DIACON P	143.1	138	140.55	154	120-188	mg/dL	Acceptable

**Assay:** CHO  
**Control:** DIACON P  
**Lot Number:** 812101  
 31-05-  
**Expiry Date:** 2024

Control Name	Measured Value 1	Measured Value 2	Measured Value Mean	Expected Mean	Expected Range	Units	Status
DIACON P	204.87	207	205.935	214	184-244	mg/dL	Acceptable

**Assay:** TGL  
**Control:** DIACON P  
**Lot Number:** 812101  
 31-05-  
**Expiry Date:** 2024

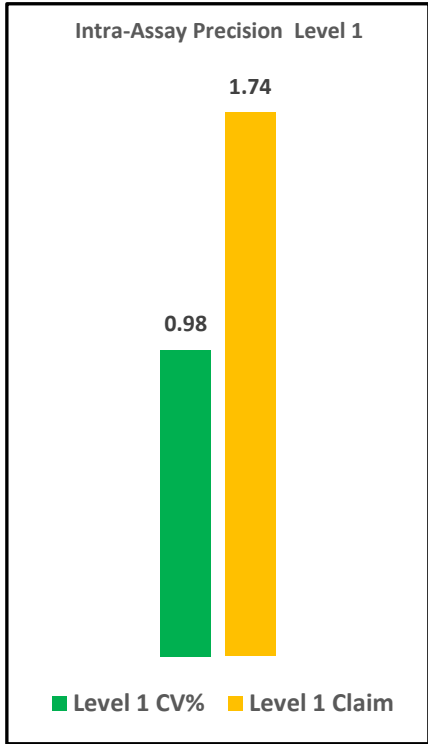
Control Name	Measured Value 1	Measured Value 2	Measured Value Mean	Expected Mean	Expected Range	Units	Status
DIACON P	162	168	165	174	143-205	mg/dL	Acceptable

**Assay:** AST  
**Control:** DIACON P  
**Lot Number:** 812101  
31-05-  
**Expiry Date:** 2024

Control Name	Measured Value 1	Measured Value 2	Measured Value Mean	Expected Mean	Expected Range	Units	Status
DIACON P	170	162	166	177	143-205	mg/dL	Acceptable

Intra-Assay Precision (Within Run)	GLUC
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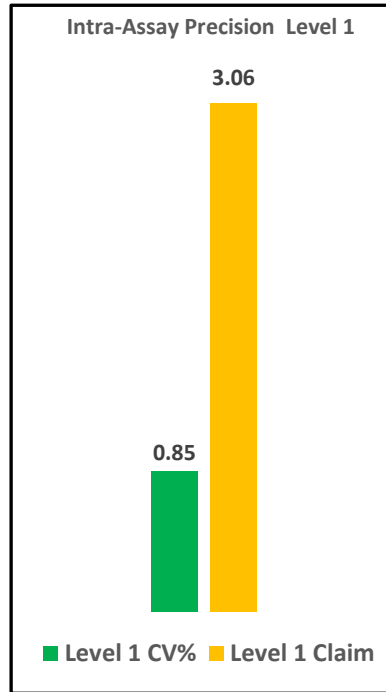
Intra-Assay Precision Data	
S.No	DIACON N
1	280.4
2	282.7
3	285.3
4	284.5
5	283.4
6	287.0
7	284.3
8	280.6
9	280.7
10	277.8
<b>Mean</b>	282.67
<b>SD</b>	2.77
<b>CV</b>	0.98
Manufacturer Claim	
<b>CV%</b>	1.74
Unit:	



Acceptance Criteria: Intra Assay Precision Passed within the Manufacturer Claim

Intra-Assay Precision (Within Run)	T.P
---------------------------------------	-----

Intra-Assay Precision Data	
S.No	DIACON P
1	7.5
2	7.49
3	7.44
4	7.4
5	7.45
6	7.5
7	7.39
8	7.4
9	7.46
10	7.35
<b>Mean</b>	7.43
<b>SD</b>	0.05
<b>CV</b>	0.67
Manufacturer Claim	
<b>CV%</b>	3.06
Unit:	



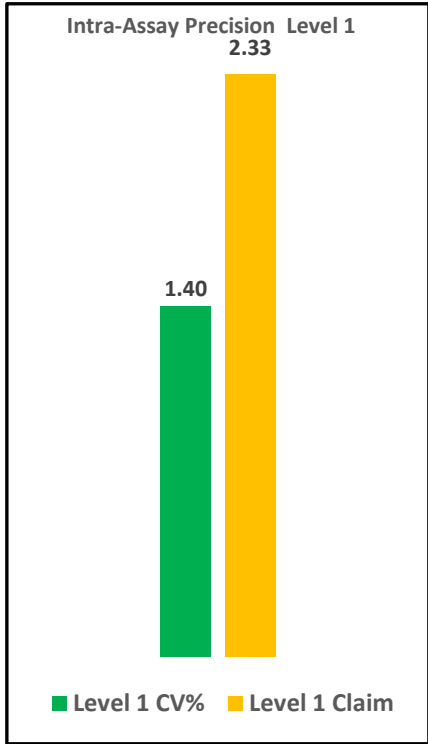
Acceptance

Criteria:

Intra Assay Precision Passed within the Manufacturer Claim

<b>Intra-Assay Precision (Within Run)</b>	<b>UREA</b>
---	-------------

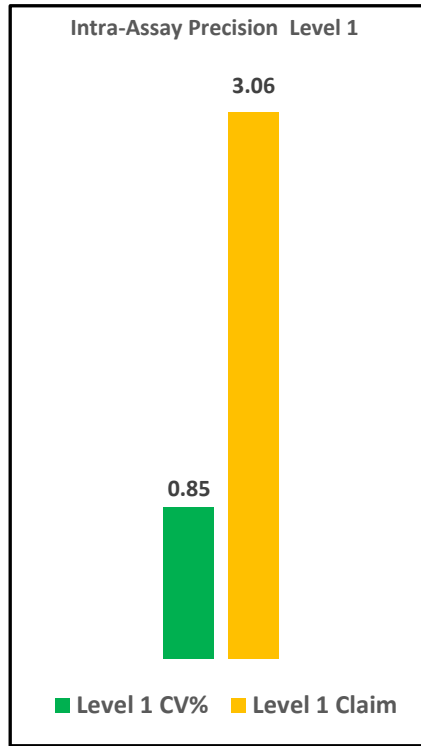
Intra-Assay Precision Data	
S.No	DIACON N
1	150
2	151.9
3	153.8
4	152.3
5	156.4
6	154.4
7	154.2
8	152.2
9	153.5
10	149.2
<b>Mean</b>	152.79
<b>SD</b>	2.14
<b>CV</b>	1.40
Manufacturer Claim	
<b>CV%</b>	2.33
	Unit:



Acceptance Criteria: Intra Assay Precision Passed within the Manufacturer Claim

<b>Intra-Assay Precision (Within Run)</b>	<b>ALT</b>
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Intra-Assay Precision Data	
S.No	DIACON N
1	126.1
2	126
3	125.6
4	126.9
5	125.2
6	123.1
7	124.6
8	125.6
9	124.4
10	125.7
<b>Mean</b>	125.32
<b>SD</b>	1.06
<b>CV</b>	0.85
Manufacturer Claim	
<b>CV%</b>	3.06
	Unit:



Acceptance Criteria: Intra Assay Precision Passed within the Manufactu

MEDRAY DIAGNOSTICS  
INDIRANAGAR

Sample No. :1      Sample ID:202209130001      Bed No. :      Sample Type:Serum  
Name:PRECISION      Gender:Male      Age:      Case No. :  
Department:      Doctor:      Diagnosis:  
Remark:      Register Date:13-09-2022 13:56:31

No.	Test Name	Result	Hint	Unit	Reference range
1	[GLU3]GLUCOSE	280.4	H	mg/dl	70.0~140.0
2	[UREA1]UREA	150.0	H	mg/dl	10.0~50.0
3	[TPM1]TP	7.50		g/dl	6.60~8.30
4	[ALT1]SGPT	126.1	H	U/L	0.0~35.0

Checker:admin      Examiner:      BANGALORE      Report Date:13-09-2022 18:17:32

MEDRAY DIAGNOSTICS  
INDIRANAGAR

Sample No. :2      Sample ID:202209130002      Bed No. :      Sample Type:Serum  
Name:PRECISION      Gender:Male      Age:      Case No. :  
Department:      Doctor:      Diagnosis:  
Remark:      Register Date:13-09-2022 13:56:31

No.	Test Name	Result	Hint	Unit	Reference range
1	[GLU3]GLUCOSE	282.7	H	mg/dl	70.0~140.0
2	[UREA1]UREA	151.9	H	mg/dl	10.0~50.0
3	[TPM1]TP	7.49		g/dl	6.60~8.30
4	[ALT1]SGPT	125.6	H	U/L	0.0~35.0

MEDRAY DIAGNOSTICS  
INDIRANAGAR

Sample No. :3      Sample ID:202209130003      Bed No. :      Sample Type:Serum  
Name:PRECISION      Gender:Male      Age:      Case No. :  
Department:      Doctor:      Diagnosis:  
Remark:      Register Date:13-09-2022 13:56:31

No.	Test Name	Result	Hint	Unit	Reference range
1	[GLU3]GLUCOSE	285.3	H	mg/dl	70.0~140.0
2	[UREA1]UREA	153.8	H	mg/dl	10.0~50.0
3	[TPM1]TP	7.44		g/dl	6.60~8.30
4	[ALT1]SGPT	126.9	H	U/L	0.0~35.0

Checker:admin      Examiner:      BANGALORE      Report Date:13-09-2022 18:17:32

MEDRAY DIAGNOSTICS  
INDIRANAGAR

Sample No. :4      Sample ID:202209130004      Bed No. :      Sample Type:Serum  
Name:PRECISION      Gender:Male      Age:      Case No. :  
Department:      Doctor:      Diagnosis:  
Remark:      Register Date:13-09-2022 13:56:31

No.	Test Name	Result	Hint	Unit	Reference range
1	[GLU3]GLUCOSE	284.5	H	mg/dl	70.0~140.0
2	[UREA1]UREA	152.3	H	mg/dl	10.0~50.0
3	[TPM1]TP	7.40		g/dl	6.60~8.30
4	[ALT1]SGPT	126.9	H	U/L	0.0~35.0



MEDRAY DIAGNOSTICS  
INDIRANAGAR

Sample No. :5      Sample ID:202209130005      Bed No. :      Sample Type:Serum  
Name:PRECISION      Gender:Male      Age:      Case No. :  
Department:      Doctor:      Diagnosis:  
Remark:      Register Date:13-09-2022 13:56:31

No.	Test Name	Result	Hint	Unit	Reference range
1	[GLU3]GLUCOSE	283.4	H	mg/dl	70.0~140.0
2	[UREA1]UREA	156.4	H	mg/dl	10.0~50.0
3	[TPM1]TP	7.45		g/dl	6.60~8.30
4	[ALT1]SGPT	125.2	H	U/L	0.0~35.0

Checker:admin      Examiner:      BANGALORE      Report Date:13-09-2022 18:17:32

MEDRAY DIAGNOSTICS  
INDIRANAGAR

Sample No. :6      Sample ID:202209130006      Bed No. :      Sample Type:Serum  
Name:PRECISION      Gender:Male      Age:      Case No. :  
Department:      Doctor:      Diagnosis:  
Remark:      Register Date:13-09-2022 13:56:31

No.	Test Name	Result	Hint	Unit	Reference range
1	[GLU3]GLUCOSE	287.0	H	mg/dl	70.0~140.0
2	[UREA1]UREA	154.4	H	mg/dl	10.0~50.0
3	[TPM1]TP	7.50		g/dl	6.60~8.30
4	[ALT1]SGPT	123.1	H	U/L	0.0~35.0

MEDRAY DIAGNOSTICS  
INDIRANAGAR

Sample No. :7      Sample ID:202209130007      Bed No. :      Sample Type:Serum  
Name:PRECISION      Gender:Male      Age:      Case No. :  
Department:      Doctor:      Diagnosis:  
Remark:      Register Date:13-09-2022 13:56:31

No.	Test Name	Result	Hint	Unit	Reference range
1	[GLU3]GLUCOSE	284.3	H	mg/dl	70.0~140.0
2	[UREA1]UREA	154.2	H	mg/dl	10.0~50.0
3	[TPM1]TP	7.39		g/dl	6.60~8.30
4	[ALT1]SGPT	124.6	H	U/L	0.0~35.0

Checker:admin      Examiner:      BANGALORE      Report Date:13-09-2022 18:17:32

MEDRAY DIAGNOSTICS  
INDIRANAGAR

Sample No. :8      Sample ID:202209130008      Bed No. :      Sample Type:Serum  
Name:PRECISION      Gender:Male      Age:      Case No. :  
Department:      Doctor:      Diagnosis:  
Remark:      Register Date:13-09-2022 13:56:31

No.	Test Name	Result	Hint	Unit	Reference range
1	[GLU3]GLUCOSE	280.6	H	mg/dl	70.0~140.0
2	[UREA1]UREA	152.2	H	mg/dl	10.0~50.0
3	[TPM1]TP	7.40		g/dl	6.60~8.30
4	[ALT1]SGPT	125.6	H	U/L	0.0~35.0

MEDRAY DIAGNOSTICS  
INDIRANAGAR

Sample No. :9      Sample ID:202209130009      Bed No. :      Sample Type:Serum  
Name:PRECISION      Gender:Male      Age:      Case No. :  
Department:      Doctor:      Diagnosis:  
Remark:      Register Date:13-09-2022 13:56:31

No.	Test Name	Result	Hint	Unit	Reference range
1	[GLU3]GLUCOSE	280.7	H	mg/dl	70.0~140.0
2	[UREA1]UREA	153.5	H	mg/dl	10.0~50.0
3	[TPM1]TP	7.46		g/dl	6.60~8.30
4	[ALT1]SGPT	124.4	H	U/L	0.0~35.0

Checker:admin      Examiner:      BANGALORE      Report Date:13-09-2022 18:17:32

MEDRAY DIAGNOSTICS  
INDIRANAGAR

Sample No. :10      Sample ID:202209130010      Bed No. :      Sample Type:Serum  
Name:PRECISION      Gender:Male      Age:      Case No. :  
Department:      Doctor:      Diagnosis:  
Remark:      Register Date:13-09-2022 13:56:31

No.	Test Name	Result	Hint	Unit	Reference range
1	[GLU3]GLUCOSE	277.8	H	mg/dl	70.0~140.0
2	[UREA1]UREA	149.2	H	mg/dl	10.0~50.0
3	[TPM1]TP	7.35		g/dl	6.60~8.30
4	[ALT1]SGPT	125.7	H	U/L	0.0~35.0