



## CERTIFICATE OF CALIBRATION/ VERIFICATION

**Customer Name** : GLOBAL DIAGNOSTICS  
**Department** : BIOCHEMISTRY  
**Model** : Fully Automated Bio-chemistry Analyzer-EM 200  
**Serial Number** : 2002118  
**Calibration Date** : 22.03.2023  
**Next Calibration due on or before** : 21.03.2024  
**Calibrator Used:** Multical Lot : 2206133A  
**Quality Control Used:** BIORAD: 89700

This is to certify that the above mentioned instrument has been verified of calibration according to the procedures provided by the manufacturer in the reference manual.

The reference instruments used for value assignment are managed by the traceability systems with the manufacturer and these are traceable to international standards.

### General Parameters:

Parameter	Measured Value	Acceptable Range	
Line Voltage	229 V	230 V +/- 5%	Pass
Logic Voltage	5.0 V	4.9 V to 5.1 V	Pass
Lamp Voltage	12.01 V	11.8 V to 12.2 V	Pass
Flow cell Temperature	37.0 deg	37 +/- 0.5	Pass
45 Cuvette blank value for for all filter	Enclose valuesheet for all cuvette	Abs 0.02-0.2	Pass



## Photometer Filter Gain Levels: Attached Instrument Print

s.no	Filter Value in nm	Filter Gain in mv	Acceptable Range of gain
1	340	468	200 mv to 800 mv
2	405	468	200 mv to 800 mv
3	505	487	200 mv to 800 mv
4	546	486	200 mv to 800 mv
5	578	471	200 mv to 800 mv
6	600	477	200 mv to 800 mv
7	660	447	200 mv to 800 mv
8	700	457	200 mv to 800 mv

## Cellblanks Details for all Fiter:

s.no	Filter	Cell Blank range of 45 position Acceptable Range(0.03-0.2)	Pass/Fail
1	340	With in the range, Document Attached	Pass
2	405	With in the range, Document Attached	Pass
3	505	With in the range, Document Attached	Pass
4	546	With in the range, Document Attached	Pass
5	578	With in the range, Document Attached	Pass
6	600	With in the range, Document Attached	Pass
7	660	With in the range, Document Attached	Pass
8	700	With in the range, Document Attached	Pass

Technical Service Department

S. Nagar  
Transasia Bio-medical Limited  
22/12/2014

## XL MULTICAL

Lot No.: 2206133A

Expiry: 12/2023

Cat. No.	Pack Name	Packaging (Content)
XSYS0034	XL MULTICAL	4 x 3 ml



### INTENDED USE

XL Multical is a lyophilized calibrator based on human serum. The concentrations and activities are suitable for calibration of clinical chemistry assays on automated clinical chemistry analyzers.

### STORAGE AND HANDLING

Unreconstituted lyophilized calibrator is stable till the expiry date mentioned on the label when stored at 2-8°C.

Stability of the reconstituted calibrator*	Temperature	Duration
at 15-25 °C	8 hours	
at 2-8 °C	2 days	
at (-25) - (-15) °C	4 weeks (when frozen once)	

### \*Exceptions:

Stability of Total Bilirubin in the reconstituted calibrator (when stored protected from light):

at 15-25 °C	6 hours
at 2-8 °C	1 day
at (-25) - (-15) °C	2 weeks (when frozen once)

Stability of Direct Bilirubin in the reconstituted calibrator (when stored protected from light):

at 15-25 °C	3 hours
at 2-8 °C	8 hours
at (-25) - (-15) °C	2 weeks (when frozen once)

Store calibrator tightly capped and protected from light when not in use. Store vials upright to avoid spills and leakage. Seal the vials tightly after use to prevent evaporation.

### RECONSTITUTION

- Remove the screw cap and rubber stopper from the vial to be used. Avoid loss of lyophilizate.
- Add exactly 3.0 ml of distilled/deionized water using a volumetric pipette.
- Replace the stopper and cap for each vial and dissolve the contents on a roller mixer completely by occasional gentle swirling within 30 minutes. Avoid the formation of foam.

### VALUE ASSIGNMENT

The calibrator values were determined using the method mentioned in the enclosed value sheet. The calibrator values were obtained via single determination performed in different laboratories and the values assigned by a consensus of the results obtained by these laboratories.

### LIMITATIONS

Erroneous results can occur from reconstitution inaccuracies and technical errors associated with the assay procedure.

Do not use the reconstituted calibrator if there is visible evidence of microbial growth in the vial.

### WARNING

Human source material used in the manufacturing of this product has been tested by FDA - approved methods and found non reactive for hepatitis B, surface antigen (HbsAg), antibody to Hepatitis C (HCV) and antibody to HIV1/2.

The test procedures do not guarantee that all infectious agents will be detected. Because no test method can offer complete assurance that Hepatitis B virus, Hepatitis C virus and HIV 1/2 or other infectious agents are absent, the material should be handled as potentially infectious.

### ASSAYED VALUES USING XL SysPack REAGENT

Short name	Parameter	Methodology	Unit	Value	Unit	Value
ALB	Albumin	BCG	g/dl	3.52	g/l	35.2
ALP	Alkaline phosphatase	IFCC with AMP buffer	U/l	262	µkat/l	4.36
ALT/GPT	Alanine aminotransferase	IFCC without PDP	U/l	88.8	µkat/l	1.48
AMY	Amylase	CNPG3	U/l	184	µkat/l	3.07
AST/GOT	Aspartate aminotransferase	IFCC without PDP	U/l	100	µkat/l	1.67
BID	Bilirubin Direct	Diazo (Walter & Gerarde)	mg/dl	2.13	µmol/l	36.4
		DCA	mg/dl	2.29	µmol/l	39.1
BIT	Bilirubin Total	Diazo (Walter & Gerarde)	mg/dl	4.54	µmol/l	77.7
		DCA	mg/dl	4.30	µmol/l	73.5
CA	Calcium	Arsenaso III	mg/dl	10.3	mmol/l	2.58
CHE	Cholinesterase	Butyrylthiocholine	U/l	5220	µkat/l	87.2
CHOL	Cholesterol	CHOD-PAP	mg/dl	155	mmol/l	4.00
CK	Creatine kinase NAC	DGKC	U/l	333	µkat/l	5.56
CK MB**	Creatine kinase MB	Immunoinhibition	U/l	429	µkat/l	7.16
CL	Chloride	Mercuric Thiocyanate	mmol/l	100	mmol/l	100
CREA	Creatinine	Jaffe's kinetic	mg/dl	3.91	µmol/l	346
		Enzymatic	mg/dl	3.84	µmol/l	340
GGT	Gamma-glutamyl transferase	Glupa-C	U/l	111	µkat/l	1.85
GLU	Glucose	GOD-POD / HK G6P-DH	mg/dl	200	mmol/l	11.1
LDH	Lactate dehydrogenase	DGKC	U/l	517	µkat/l	8.62
LIP	Lipase	Enzymatic colorimetric test	U/l	99.4	µkat/l	1.66
MG	Magnesium	Xylidyl Blue	mg/dl	2.72	mmol/l	1.12
PHOS	Phosphorus	Ammonium Molybdate UV	mg/dl	5.49	mmol/l	1.77
TG	Triglycerides	GPO-Trinder (single reagent)	mg/dl	141	mmol/l	1.59
		GPO-Trinder (two reagents)	mg/dl	140	mmol/l	1.58
TP	Total Protein	Biuret	g/dl	5.04	g/l	50.4
UA	Uric Acid	Uricase-Trinder	mg/dl	5.43	µmol/l	323
UREA	Urea	Urease - GLDH, kinetic	mg/dl	100	mmol/l	16.7

\*\*Higher CK-MB to total CK ratio is due to the atypical ratio of the individual isoenzyme fractions.

### NOTE

Values for XL analysers are now available on websites:

[www.eralachema.com](http://www.eralachema.com)

• Product Support

→XL-analysers. Calibrator/control values for uploading

### USED SYMBOLS

<b>LOT</b> Lot Number	<b>IVD</b> In vitro Diagnostics	<b>I</b> See Instruction for Use
<b>REF</b> Catalogue Number	<b>M</b> Manufacturer	<b>CONT</b> Content
<b>E</b> Expiry Date	<b>T</b> Storage Temperature	

QUALITY SYSTEM CERTIFIED  
ISO 13485

Erba Lachema s.r.o., Karásek 2219/1d, 621 00 Bmo, CZ  
e-mail: [diagnostics@erbamannheim.com](mailto:diagnostics@erbamannheim.com), [www.erbamannheim.com](http://www.erbamannheim.com)  
N/06/19/K/INT 364945 Date of revision: 18.8.2022



# Result Reprint

Report Type :Patients

Test: SGPTD

Sr #	Sample ID	Test	Result Unit	Flag	Curve #	Result Date
1	Precession	SGPTD	86.0 U/L	H	131056	27-Mar-2023 13:00:47
2	Precession	SGPTD	87.0 U/L	H	131057	27-Mar-2023 13:01:05
3	Precession	SGPTD	86.2 U/L	H	131058	27-Mar-2023 13:01:23
4	Precession	SGPTD	86.0 U/L	H	131059	27-Mar-2023 13:01:41
5	Precession	SGPTD	84.2 U/L	H	131060	27-Mar-2023 13:01:59
6	Precession	SGPTD	83.1 U/L	H	131061	27-Mar-2023 13:02:17
7	Precession	SGPTD	83.7 U/L	H	131062	27-Mar-2023 13:02:35
8	Precession	SGPTD	84.2 U/L	H	131063	27-Mar-2023 13:02:54
9	Precession	SGPTD	83.4 U/L	H	131064	27-Mar-2023 13:03:11
10	Precession	SGPTD	84.7 U/L	H	131065	27-Mar-2023 13:03:30
11	Precession	SGPTD	83.9 U/L	H	131066	27-Mar-2023 13:03:48



# Result Reprint

Report Type :Patients

Test: PRO

Sr #	Sample ID	Test	Result Unit	Flag	Curve #	Result Date
1	Precession	PRO	4.65 g/dl	L	131188	27-Mar-2023 13:40:30
2	Precession	PRO	4.48 g/dl	L	131189	27-Mar-2023 13:40:48
3	Precession	PRO	4.47 g/dl	L	131190	27-Mar-2023 13:41:06
4	Precession	PRO	4.47 g/dl	L	131191	27-Mar-2023 13:41:24
5	Precession	PRO	4.47 g/dl	L	131192	27-Mar-2023 13:41:42
6	Precession	PRO	4.53 g/dl	L	131193	27-Mar-2023 13:42:00
7	Precession	PRO	4.43 g/dl	L	131194	27-Mar-2023 13:42:18
8	Precession	PRO	4.42 g/dl	L	131195	27-Mar-2023 13:42:37
9	Precession	PRO	4.50 g/dl	L	131196	27-Mar-2023 13:42:55
10	Precession	PRO	4.44 g/dl	L	131197	27-Mar-2023 13:43:13
11	Precession	PRO	4.52 g/dl	L	131198	27-Mar-2023 13:43:31



# Result Reprint

Report Type :Patients

Test: GLU

Sr #	Sample ID	Test	Result Unit	Flag	Curve #	Result Date
1	Precession	GLU	284.1 mg/dl	H	131122	27-Mar-2023 13:20:39
2	Precession	GLU	282.9 mg/dl	H	131123	27-Mar-2023 13:20:57
3	Precession	GLU	282.3 mg/dl	H	131124	27-Mar-2023 13:21:15
4	Precession	GLU	283.7 mg/dl	H	131125	27-Mar-2023 13:21:33
5	Precession	GLU	282.5 mg/dl	H	131126	27-Mar-2023 13:21:51
6	Precession	GLU	281.9 mg/dl	H	131127	27-Mar-2023 13:22:09
7	Precession	GLU	282.6 mg/dl	H	131128	27-Mar-2023 13:22:27
8	Precession	GLU	281.8 mg/dl	H	131129	27-Mar-2023 13:22:45
9	Precession	GLU	281.2 mg/dl	H	131130	27-Mar-2023 13:23:03
10	Precession	GLU	281.6 mg/dl	H	131131	27-Mar-2023 13:23:21
11	Precession	GLU	280.9 mg/dl	H	131132	27-Mar-2023 13:23:39





# Result Reprint

Report Type :Patients

Test: CRENZ

Sr #	Sample ID	Test	Result Unit	Flag	Curve #	Result Date
1	Precession	CRENZ	4.89 mg/dl	H	131111	27-Mar-2023 13:17:20
2	Precession	CRENZ	4.93 mg/dl	H	131112	27-Mar-2023 13:17:38
3	Precession	CRENZ	4.88 mg/dl	H	131113	27-Mar-2023 13:17:56
4	Precession	CRENZ	4.93 mg/dl	H	131114	27-Mar-2023 13:18:14
5	Precession	CRENZ	4.97 mg/dl	H	131115	27-Mar-2023 13:18:32
6	Precession	CRENZ	4.87 mg/dl	H	131116	27-Mar-2023 13:18:50
7	Precession	CRENZ	4.92 mg/dl	H	131117	27-Mar-2023 13:19:08
8	Precession	CRENZ	4.82 mg/dl	H	131118	27-Mar-2023 13:19:26
9	Precession	CRENZ	4.88 mg/dl	H	131119	27-Mar-2023 13:19:45
10	Precession	CRENZ	4.86 mg/dl	H	131120	27-Mar-2023 13:20:03
11	Precession	CRENZ	4.90 mg/dl	H	131121	27-Mar-2023 13:20:21





## Result Reprint

Report Type :Patients

Test: CHOL

Sr #	Sample ID	Test	Result Unit	Flag	Curve #	Result Date
1	Precession	CHOL	100 mg/dl		131144	27-Mar-2023 13:27:16
2	Precession	CHOL	100 mg/dl		131145	27-Mar-2023 13:27:34
3	Precession	CHOL	101 mg/dl		131146	27-Mar-2023 13:27:52
4	Precession	CHOL	102 mg/dl		131147	27-Mar-2023 13:28:10
5	Precession	CHOL	104 mg/dl		131148	27-Mar-2023 13:28:28
6	Precession	CHOL	98 mg/dl		131154	27-Mar-2023 13:30:16
7	Precession	CHOL	100 mg/dl		131199	27-Mar-2023 13:43:49
8	Precession	CHOL	107 mg/dl		131200	27-Mar-2023 13:44:07
9	Precession	CHOL	101 mg/dl		131201	27-Mar-2023 13:44:25
10	Precession	CHOL	103 mg/dl		131202	27-Mar-2023 13:44:43
11	Precession	CHOL	104 mg/dl		131203	27-Mar-2023 13:45:01
12	Precession	CHOL	103 mg/dl		131204	27-Mar-2023 13:45:19
13	Precession	CHOL	105 mg/dl		131205	27-Mar-2023 13:45:37
14	Precession	CHOL	102 mg/dl		131206	27-Mar-2023 13:45:55


  
 27-Mar-2023

# Result Reprint

Report Type :Patients

Test: TRIG

Sr #	Sample ID	Test	Result Unit	Flag	Curve #	Result Date
1	Precession	TRIG	77.6 mg/dl		131133	27-Mar-2023 13:23:57
2	Precession	TRIG	77.8 mg/dl		131134	27-Mar-2023 13:24:15
3	Precession	TRIG	76.1 mg/dl		131135	27-Mar-2023 13:24:33
4	Precession	TRIG	76.3 mg/dl		131136	27-Mar-2023 13:24:51
5	Precession	TRIG	77.7 mg/dl		131137	27-Mar-2023 13:25:09
6	Precession	TRIG	73.9 mg/dl		131138	27-Mar-2023 13:25:27
7	Precession	TRIG	74.2 mg/dl		131139	27-Mar-2023 13:25:45
8	Precession	TRIG	77.9 mg/dl		131140	27-Mar-2023 13:26:04
9	Precession	TRIG	78.0 mg/dl		131141	27-Mar-2023 13:26:22
10	Precession	TRIG	76.2 mg/dl		131142	27-Mar-2023 13:26:40
11	Precession	TRIG	76.1 mg/dl		131143	27-Mar-2023 13:26:57

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## Result Reprint

Report Type :Patients

Test: HDLC

Sr #	Sample ID	Test	Result	Unit	Flag	Curve #	Result Date
1	Precession	HDLC	28.2	mg/dl	L	131155	27-Mar-2023 13:30:34
2	Precession	HDLC	27.0	mg/dl	L	131156	27-Mar-2023 13:30:52
3	Precession	HDLC	28.3	mg/dl	L	131157	27-Mar-2023 13:31:11
4	Precession	HDLC	27.3	mg/dl	L	131158	27-Mar-2023 13:31:29
5	Precession	HDLC	28.2	mg/dl	L	131159	27-Mar-2023 13:31:46
6	Precession	HDLC	30.6	mg/dl	L	131160	27-Mar-2023 13:32:05
7	Precession	HDLC	30.0	mg/dl	L	131161	27-Mar-2023 13:32:23
8	Precession	HDLC	30.0	mg/dl	L	131162	27-Mar-2023 13:32:41
9	Precession	HDLC	29.4	mg/dl	L	131163	27-Mar-2023 13:32:59
10	Precession	HDLC	30.0	mg/dl	L	131164	27-Mar-2023 13:33:17
11	Precession	HDLC	29.7	mg/dl	L	131165	27-Mar-2023 13:33:35

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## Result Reprint

Report Type :Patients

Test: BIT

Sr #	Sample ID	Test	Result	Unit	Flag	Curve #	Result Date
1	Precession	BIT	4.07	mg/dl	H	131089	27-Mar-2023 13:10:43
2	Precession	BIT	4.06	mg/dl	H	131090	27-Mar-2023 13:11:01
3	Precession	BIT	4.06	mg/dl	H	131091	27-Mar-2023 13:11:19
4	Precession	BIT	4.05	mg/dl	H	131092	27-Mar-2023 13:11:37
5	Precession	BIT	4.03	mg/dl	H	131093	27-Mar-2023 13:11:55
6	Precession	BIT	4.05	mg/dl	H	131094	27-Mar-2023 13:12:13
7	Precession	BIT	4.07	mg/dl	H	131095	27-Mar-2023 13:12:31
8	Precession	BIT	4.07	mg/dl	H	131096	27-Mar-2023 13:12:49
9	Precession	BIT	4.04	mg/dl	H	131097	27-Mar-2023 13:13:07
10	Precession	BIT	4.05	mg/dl	H	131098	27-Mar-2023 13:13:25
11	Precession	BIT	4.05	mg/dl	H	131099	27-Mar-2023 13:13:44





# Result Reprint

Report Type :Patients

Test: BID

Sr #	Sample ID	Test	Result	Unit	Flag	Curve #	Result Date
1	Precession	BID	1.15	mg/dl	H	131078	27-Mar-2023 13:07:24
2	Precession	BID	1.16	mg/dl	H	131079	27-Mar-2023 13:07:42
3	Precession	BID	1.06	mg/dl	H	131080	27-Mar-2023 13:08:00
4	Precession	BID	1.16	mg/dl	H	131081	27-Mar-2023 13:08:18
5	Precession	BID	1.16	mg/dl	H	131082	27-Mar-2023 13:08:37
6	Precession	BID	1.15	mg/dl	H	131083	27-Mar-2023 13:08:55
7	Precession	BID	1.14	mg/dl	H	131084	27-Mar-2023 13:09:13
8	Precession	BID	1.15	mg/dl	H	131085	27-Mar-2023 13:09:31
9	Precession	BID	1.14	mg/dl	H	131086	27-Mar-2023 13:09:49
10	Precession	BID	1.15	mg/dl	H	131087	27-Mar-2023 13:10:07
11	Precession	BID	1.14	mg/dl	H	131088	27-Mar-2023 13:10:25



# Result Reprint

Report Type :Patients

Test: ALPU

Sr #	Sample ID	Test	Result Unit	Flag	Curve #	Result Date
1	Precession	ALPU	576 U/L	H	131067	27-Mar-2023 13:04:06
2	Precession	ALPU	576 U/L	H	131068	27-Mar-2023 13:04:24
3	Precession	ALPU	577 U/L	H	131069	27-Mar-2023 13:04:42
4	Precession	ALPU	580 U/L	H	131070	27-Mar-2023 13:05:00
5	Precession	ALPU	578 U/L	H	131071	27-Mar-2023 13:05:18
6	Precession	ALPU	573 U/L	H	131072	27-Mar-2023 13:05:36
7	Precession	ALPU	573 U/L	H	131073	27-Mar-2023 13:05:54
8	Precession	ALPU	577 U/L	H	131074	27-Mar-2023 13:06:12
9	Precession	ALPU	579 U/L	H	131075	27-Mar-2023 13:06:30
10	Precession	ALPU	580 U/L	H	131076	27-Mar-2023 13:06:48
11	Precession	ALPU	575 U/L	H	131077	27-Mar-2023 13:07:06



A circular stamp is located in the lower right quadrant of the page. The text within the stamp is partially illegible but appears to include 'LABORATORY' and '2023'. Below the stamp is a handwritten signature in black ink.

# Result Reprint

Report Type :Patients

Test: ALBD

Sr #	Sample ID	Test	Result	Unit	Flag	Curve #	Result Date
1	Precession	ALBD	2.62	g/dl	L	131177	27-Mar-2023 13:37:11
2	Precession	ALBD	2.61	g/dl	L	131178	27-Mar-2023 13:37:29
3	Precession	ALBD	2.62	g/dl	L	131179	27-Mar-2023 13:37:47
4	Precession	ALBD	2.62	g/dl	L	131180	27-Mar-2023 13:38:06
5	Precession	ALBD	2.61	g/dl	L	131181	27-Mar-2023 13:38:24
6	Precession	ALBD	2.63	g/dl	L	131182	27-Mar-2023 13:38:42
7	Precession	ALBD	2.62	g/dl	L	131183	27-Mar-2023 13:39:00
8	Precession	ALBD	2.62	g/dl	L	131184	27-Mar-2023 13:39:18
9	Precession	ALBD	2.63	g/dl	L	131185	27-Mar-2023 13:39:36
10	Precession	ALBD	2.62	g/dl	L	131186	27-Mar-2023 13:39:54
11	Precession	ALBD	2.61	g/dl	L	131187	27-Mar-2023 13:40:12



Print Date

27-Mar-2023

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# Result Reprint

Report Type :Patients

Test: CA

Sr #	Sample ID	Test	Result	Unit	Flag	Curve #	Result Date
1	Precession	CA	12.2	mg/dl	H	131166	27-Mar-2023 13:33:53
2	Precession	CA	12.1	mg/dl	H	131167	27-Mar-2023 13:34:11
3	Precession	CA	12.2	mg/dl	H	131168	27-Mar-2023 13:34:29
4	Precession	CA	12.1	mg/dl	H	131169	27-Mar-2023 13:34:47
5	Precession	CA	12.1	mg/dl	H	131170	27-Mar-2023 13:35:05
6	Precession	CA	12.3	mg/dl	H	131171	27-Mar-2023 13:35:23
7	Precession	CA	12.0	mg/dl	H	131172	27-Mar-2023 13:35:41
8	Precession	CA	12.2	mg/dl	H	131173	27-Mar-2023 13:35:59
9	Precession	CA	12.1	mg/dl	H	131174	27-Mar-2023 13:36:17
10	Precession	CA	12.1	mg/dl	H	131175	27-Mar-2023 13:36:35
11	Precession	CA	12.2	mg/dl	H	131176	27-Mar-2023 13:36:53

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A faint circular stamp is visible in the lower right quadrant of the page, containing illegible text. Below the stamp is a handwritten signature in blue ink.



## Result Reprint

Report Type :Patients

Test: SGOTN

Sr #	Sample ID	Test	Result	Unit	Flag	Curve #	Result Date
1	Precession	SGOTN	166.9	U/L	H	131209	27-Mar-2023 13:46:49
2	Precession	SGOTN	167.2	U/L	H	131210	27-Mar-2023 13:47:07
3	Precession	SGOTN	166.3	U/L	H	131211	27-Mar-2023 13:47:25
4	Precession	SGOTN	166.1	U/L	H	131212	27-Mar-2023 13:47:43
5	Precession	SGOTN	165.3	U/L	H	131213	27-Mar-2023 13:48:01
6	Precession	SGOTN	165.8	U/L	H	131214	27-Mar-2023 13:48:19
7	Precession	SGOTN	165.5	U/L	H	131215	27-Mar-2023 13:48:38
8	Precession	SGOTN	166.3	U/L	H	131216	27-Mar-2023 13:48:56
9	Precession	SGOTN	165.8	U/L	H	131217	27-Mar-2023 13:49:14
10	Precession	SGOTN	166.3	U/L	H	131218	27-Mar-2023 13:49:32
11	Precession	SGOTN	165.8	U/L	H	131219	27-Mar-2023 13:49:50

117  
116  
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## Result Reprint

Report Type :Patients

Test: UAM

Sr #	Sample ID	Test	Result	Unit	Flag	Curve #	Result Date
1	Precession	UAM	10.4	mg/dl	H	131220	27-Mar-2023 13:50:08
2	Precession	UAM	10.4	mg/dl	H	131221	27-Mar-2023 13:50:26
3	Precession	UAM	10.1	mg/dl	H	131222	27-Mar-2023 13:50:44
4	Precession	UAM	10.1	mg/dl	H	131223	27-Mar-2023 13:51:02
5	Precession	UAM	10.2	mg/dl	H	131224	27-Mar-2023 13:51:20
6	Precession	UAM	10.2	mg/dl	H	131225	27-Mar-2023 13:51:38
7	Precession	UAM	10.3	mg/dl	H	131226	27-Mar-2023 13:51:56
8	Precession	UAM	10.2	mg/dl	H	131227	27-Mar-2023 13:52:14
9	Precession	UAM	10.0	mg/dl	H	131228	27-Mar-2023 13:52:32
10	Precession	UAM	10.2	mg/dl	H	131229	27-Mar-2023 13:52:50
11	Precession	UAM	10.3	mg/dl	H	131230	27-Mar-2023 13:53:08

# GLOBAL DIAGNOSTICS HYDERABAD

## Carryover worksheet.

Instrument Id:EM200

Date performed:27.03.23

Carryover calculation:

$$\text{Carryover \%} = (L1-L3) / (H3-L3) * 100.$$

Interpretation of results. :

- 1) If (L1-L3 ) is equal to a negative number or zero then stop as there is no evidence of carryover.
- 2) The percentage carryover effect should be less than the imprecision of the assay listed by manufacturer.

Instrument	Analytes				
	GLU	UREA	CRENZ	SGPT	SGOT
H1	295.7	87.9	5.37	86	163.8
H2	297.9	87.6	5.43	86.8	163
H3	296.5	86.4	5.47	88	163.6
L1	84.6	28.6	1.98	21.6	35.9
L2	83.7	29.7	1.89	20.8	34.5
L3	84.6	28.7	1.95	21	37
% age Carryover	0.00	-0.17	0.85	0.90	-0.87

*[Faint circular stamp and handwritten signature]*

# GLOBAL DIAGNOSTICS

## Carryover worksheet.

Instrument Name:EM 200

Date performed:27.03.23

Carryover calculation:

$$\text{Carryover \%} = (L1-L3) / (H3-L3) * 100.$$

Interpretation of results. :

- 1) If (L1-L3) is equal to a negative number or zero then stop as there is no evidence of carryover.
- 2) The percentage carryover effect should be less than the imprecision of the assay listed by manufacturer.

Instrument	Analytes			
	PRO	ALB	UA	ALP
H1	4.48	2.71	9.6	576
H2	4.36	2.72	9.5	572
H3	4.44	2.65	9.5	577
L1	6.62	4.06	4.9	130
L2	6.53	4.07	5	132
L3	6.62	4.05	4.9	131
% age Carryover	0.00	-0.71	0.00	-0.22

A faint circular stamp is visible in the lower right quadrant of the page. Below the stamp, there is a handwritten signature in black ink.



# GLOBAL DIAGNOSTICS

## Carryover worksheet.

Instrument Name:EM 200

Date performed:27.03.23

Carryover calculation:

$$\text{Carryover \%} = (L1-L3) / (H3-L3) * 100.$$

Interpretation of results. :

- 1) If (L1-L3 ) is equal to a negative number or zero then stop as there is no evidence of carryover.
- 2) The percentage carryover effect should be less than the imprecision of the assay listed by manufacturer.

Analytes			
Instrument	BID	BIT	CA
H1	1.17	3.95	12.7
H2	1.15	3.98	12.8
H3	1.16	3.99	12.5
L1	0.37	1.02	9.9
L2	0.39	0.99	9.6
L3	0.37	0.98	9.8
% age Carryover	0.00	1.33	3.70

*JMS*

Sample ID	Carryover-1	Patient ID	
Name		Sample Type	SERUM
Category	-	Collection Date	27-Mar-2023
Age	-	Reg. Date	27-Mar-2023
Ref. Dr		Analyst	
Sample Remark		Location	

Sr.No.	Test	Result	Flag	Normal Range
1	ALT/GPT	86.0 U/L	H	↑ 0.0 - 45.0 U/L
2	ALT/GPT	86.8 U/L	H	↑ 0.0 - 45.0 U/L
3	ALT/GPT	88.0 U/L	H	↑ 0.0 - 45.0 U/L
4	AST/GOT	163.8 U/L	H	↑ 0.0 - 35.0 U/L
5	AST/GOT	163.0 U/L	H	↑ 0.0 - 35.0 U/L
6	AST/GOT	163.6 U/L	H	↑ 0.0 - 35.0 U/L
7	Alkaline Phosphatase	576 U/L	H	↑ 53 - 128 U/L
8	Alkaline Phosphatase	572 U/L	H	↑ 53 - 128 U/L
9	Alkaline Phosphatase	577 U/L	H	↑ 53 - 128 U/L
10	Bilirubin Direct	1.17 mg/dl	H	↑ 0.00 - 0.20 mg/dl
11	Bilirubin Direct	1.15 mg/dl	H	↑ 0.00 - 0.20 mg/dl
12	Bilirubin Direct	1.16 mg/dl	H	↑ 0.00 - 0.20 mg/dl
13	Bilirubin Total	3.95 mg/dl	H	↑ 0.00 - 2.00 mg/dl

Patient Remark

Completion Date 27-Mar-2023 13:22



Note : Tests have been performed on fully automated analyzer:- EM 200

Print Date 27-Mar-2023 13:33 Page 1 of 3

Sample ID	Carryover-1	Patient ID	
Name		Sample Type	SERUM
Category	-	Collection Date	27-Mar-2023
Age	-	Reg. Date	27-Mar-2023
Ref. Dr		Analyst	

Sample Remark


Location

Sr.No.	Test	Result	Flag	Normal Range
14	Bilirubin Total	3.98 mg/dl	H	↑ 0.00 - 2.00 mg/dl
15	Bilirubin Total	3.99 mg/dl	H	↑ 0.00 - 2.00 mg/dl
16	Urea	87.9 mg/dl	H	↑ 18.0 - 55.0 mg/dl
17	Urea	86.4 mg/dl	H	↑ 18.0 - 55.0 mg/dl
18	Urea	87.6 mg/dl	H	↑ 18.0 - 55.0 mg/dl
19	Creatinine ENZ	5.47 mg/dl	H	↑ 0.70 - 1.30 mg/dl
20	Creatinine ENZ	5.43 mg/dl	H	↑ 0.70 - 1.30 mg/dl
21	Creatinine ENZ	5.37 mg/dl	H	↑ 0.70 - 1.30 mg/dl
22	Glucose	295.7 mg/dl	H	↑ 74.0 - 100.0 mg/dl
23	Glucose	297.9 mg/dl	H	↑ 74.0 - 100.0 mg/dl
24	Glucose	296.5 mg/dl	H	↑ 74.0 - 100.0 mg/dl
25	Uric Acid	9.6 mg/dl	H	↑ 3.5 - 7.2 mg/dl
26	Uric Acid	9.5 mg/dl	H	↑ 3.5 - 7.2 mg/dl

Patient Remark

Completion Date 27-Mar-2023 13:27

Note : Tests have been performed on fully automated analyzer:- EM 200

Print Date 27-Mar-2023 13:33  Page 2 of 3

Sample ID	Carryover-1	Patient ID	
Name		Sample Type	SERUM
Category	-	Collection Date	27-Mar-2023
Age	-	Reg. Date	27-Mar-2023
Ref. Dr		Analyst	
Sample Remark		Location	

Sr.No.	Test	Result	Flag	Normal Range
27	Uric Acid	9.5 mg/dl	H	↑ 3.5 - 7.2 mg/dl
28	Calcium	12.5 mg/dl	H	↑ 8.6 - 10.2 mg/dl
29	Calcium	12.7 mg/dl	H	↑ 8.6 - 10.2 mg/dl
30	Calcium	12.8 mg/dl	H	↑ 8.6 - 10.2 mg/dl
31	Albumin	2.71 g/dl	L	↓ 3.50 - 5.20 g/dl
32	Albumin	2.72 g/dl	L	↓ 3.50 - 5.20 g/dl
33	Albumin	2.65 g/dl	L	↓ 3.50 - 5.20 g/dl
34	Total Protein	4.48 g/dl	L	↓ 6.40 - 8.30 g/dl
35	Total Protein	4.36 g/dl	L	↓ 6.40 - 8.30 g/dl
36	Total Protein	4.44 g/dl	L	↓ 6.40 - 8.30 g/dl

Patient Remark

Completion Date 27-Mar-2023 13:30

Note : Tests have been performed on fully automated analyzer:- EM 200

Print Date 27-Mar-2023 13:33 Page 3 of 3


Sample ID	Carryover-2	Patient ID	
Name		Sample Type	SERUM
Category	-	Collection Date	27-Mar-2023
Age	-	Reg. Date	27-Mar-2023
Ref. Dr		Analyst	
Sample Remark		Location	

Sr.No.	Test	Result	Flag	Normal Range
1	ALT/GPT	21.6 U/L		0.0 - 45.0 U/L
2	ALT/GPT	20.8 U/L		0.0 - 45.0 U/L
3	ALT/GPT	21.0 U/L		0.0 - 45.0 U/L
4	AST/GOT	35.9 U/L	H	↑ 0.0 - 35.0 U/L
5	AST/GOT	34.5 U/L		0.0 - 35.0 U/L
6	AST/GOT	37.0 U/L	H	↑ 0.0 - 35.0 U/L
7	Alkaline Phosphatase	130 U/L	H	↑ 53 - 128 U/L
8	Alkaline Phosphatase	132 U/L	H	↑ 53 - 128 U/L
9	Alkaline Phosphatase	131 U/L	H	↑ 53 - 128 U/L
10	Bilirubin Direct	0.37 mg/dl	H	↑ 0.00 - 0.20 mg/dl
11	Bilirubin Direct	0.39 mg/dl	H	↑ 0.00 - 0.20 mg/dl
12	Bilirubin Direct	0.37 mg/dl	H	↑ 0.00 - 0.20 mg/dl
13	Bilirubin Total	0.98 mg/dl		0.00 - 2.00 mg/dl

Patient Remark

Completion Date 27-Mar-2023 13:35

Note : Tests have been performed on fully automated analyzer:- EM 200

  
 Print Date 27-Mar-2023 13:43 Page 1 of 3




Sample ID	Carryover-2	Patient ID	
Name		Sample Type	SERUM
Category	-	Collection Date	27-Mar-2023
Age	-	Reg. Date	27-Mar-2023
Ref. Dr		Analyst	
Sample Remark		Location	

Sr.No.	Test	Result	Flag	Normal Range
14	Bilirubin Total	0.99 mg/dl		0.00 - 2.00 mg/dl
15	Bilirubin Total	1.02 mg/dl		0.00 - 2.00 mg/dl
16	Urea	29.7 mg/dl		18.0 - 55.0 mg/dl
17	Urea	28.6 mg/dl		18.0 - 55.0 mg/dl
18	Urea	28.7 mg/dl		18.0 - 55.0 mg/dl
19	Creatinine ENZ	1.98 mg/dl	H	↑ 0.70 - 1.30 mg/dl
20	Creatinine ENZ	1.89 mg/dl	H	↑ 0.70 - 1.30 mg/dl
21	Creatinine ENZ	1.88 mg/dl	H	↑ 0.70 - 1.30 mg/dl
22	Glucose	84.6 mg/dl		74.0 - 100.0 mg/dl
23	Glucose	83.7 mg/dl		74.0 - 100.0 mg/dl
24	Glucose	84.6 mg/dl		74.0 - 100.0 mg/dl
25	Uric Acid	5.0 mg/dl		3.5 - 7.2 mg/dl
26	Uric Acid	4.9 mg/dl		3.5 - 7.2 mg/dl

Patient Remark

Completion Date 27-Mar-2023 13:40

Note : Tests have been performed on fully automated analyzer:- EM 200

  
 Print Date 27-Mar-2023 13:43 Page 2 of 3

Sample ID	Carryover-2	Patient ID	
Name		Sample Type	SERUM
Category	-	Collection Date	27-Mar-2023
Age	-	Reg. Date	27-Mar-2023
Ref. Dr		Analyst	
Sample Remark		Location	

Sr.No.	Test	Result	Flag	Normal Range
27	Uric Acid	4.9 mg/dl		3.5 - 7.2 mg/dl
28	Calcium	9.6 mg/dl		8.6 - 10.2 mg/dl
29	Calcium	9.9 mg/dl		8.6 - 10.2 mg/dl
30	Calcium	9.8 mg/dl		8.6 - 10.2 mg/dl
31	Albumin	4.06 g/dl		3.50 - 5.20 g/dl
32	Albumin	4.07 g/dl		3.50 - 5.20 g/dl
33	Albumin	4.05 g/dl		3.50 - 5.20 g/dl
34	Total Protein	6.53 g/dl		6.40 - 8.30 g/dl
35	Total Protein	6.62 g/dl		6.40 - 8.30 g/dl
36	Total Protein	6.62 g/dl		6.40 - 8.30 g/dl

Patient Remark

Completion Date 27-Mar-2023 13:43

Note : Tests have been performed on fully automated analyzer:- EM 200

Print Date 27-Mar-2023 13:43 Page 3 of 3

# GLOBAL DIAGNOSTICS

Instrument Name:EM 200

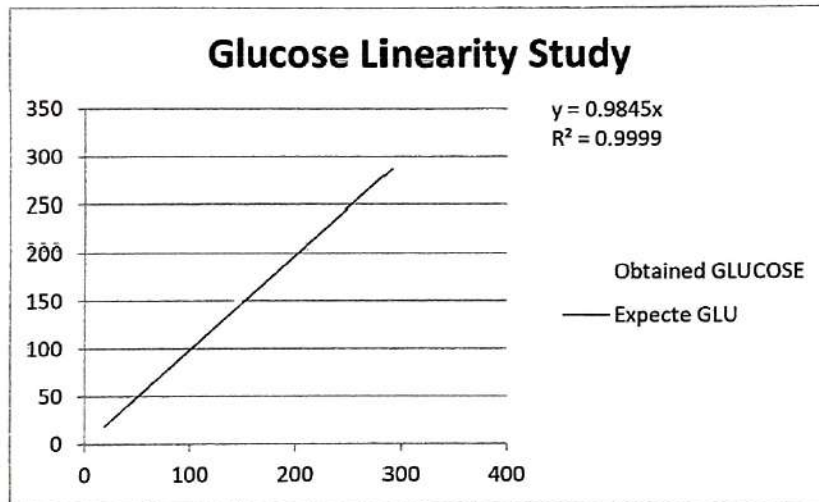
Instrument Serial Nu

2002118

GLUCOSE Linearity Study

Date performed:27-03-23

Dilution Factor	Expected GLUCOSE	Obtained GLUCOSE
Original Sample	291	285.2
1/2dilution	145.5	144.3
1/2dilution	72.8	73.7
1/2dilution	36.5	37.7
1/2dilution	18.3	18.8



Company Representative

Sing: *[Signature]*  
Date:

Customer Authorization

Sing: *[Signature]*  
Date: 27/3/23

*[Signature]*

# GLOBAL DIAGNOSTICS

Instrument Name:EM 200

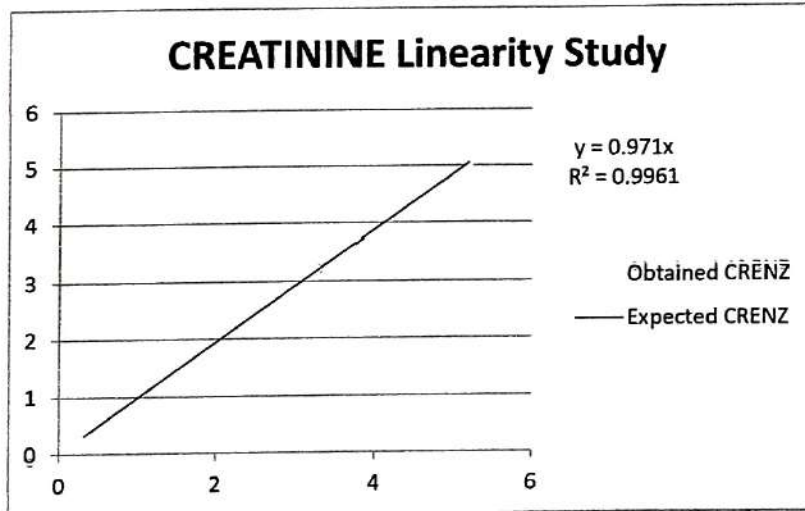
Instrument Serial Num

2002118

CRENZ Linearity Study

Date performed:27-03-23

Dilution Factor	Expected CRENZ	Obtained CRENZ
Original Sample	5.2	4.88
1/2dilution	2.6	2.73
1/2dilution	1.3	1.43
1/2dilution	0.65	0.81
1/2dilution	0.33	0.35



Company Representative

Sing: *[Signature]*

Date: 27/3/23

Customer Authorization

Sing: *[Signature]*

Date: 27/3/23

*[Signature]*

# GLOBAL DIAGNOSTICS

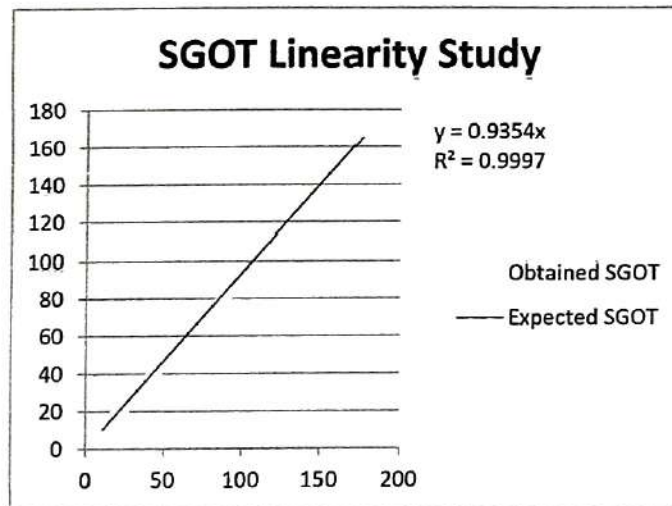
Instrument Name: EM 200

Instrument Serial N 2002118

SGOT Linearity Study

Date performed: 27-03-23

Dilution Factor	Expected SGOT	Obtained SGOT
Original Sample	176	166.1
1/2dilution	88	80.6
1/2dilution	44	39.2
1/2dilution	22	20.1
1/2dilution	11	9.1



Company Representative

Sing: *[Signature]*  
Date: 27/03/23

Customer Authorization

Sing: *[Signature]*  
Date: 27/03/23

*[Handwritten mark]*



# GLOBAL DIAGNOSTICS

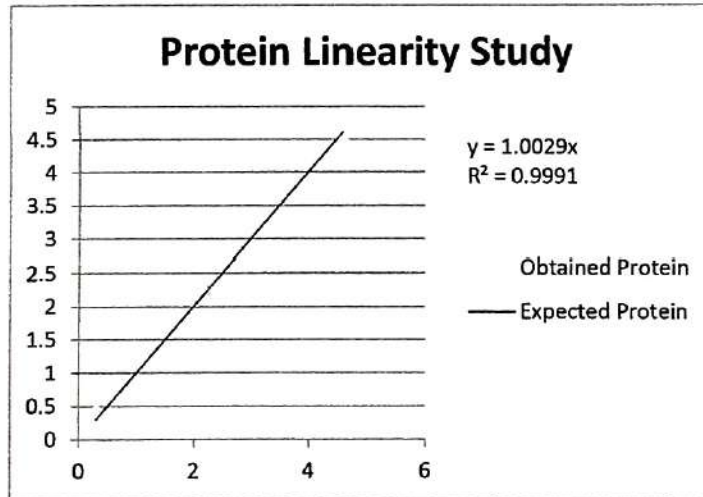
Instrument Name:EM 200

Instrument Serial No: 2002118

PRO Linearity Study

Date performed:27-03-23

Dilution Factor	Expected Protein	Obtained Protein
Original Sample	4.6	4.56
1/2dilution	2.3	2.36
1/2dilution	1.15	1.19
1/2dilution	0.59	0.68
1/2dilution	0.3	0.4



Company Representative

Sing: *[Signature]*  
Date: 27/03/23

Customer Authorization

Sing: *[Signature]*  
Date: 27/3/23

*[Signature]*

# GLOBAL DIAGNOSTICS

Instrument Name: EM 200

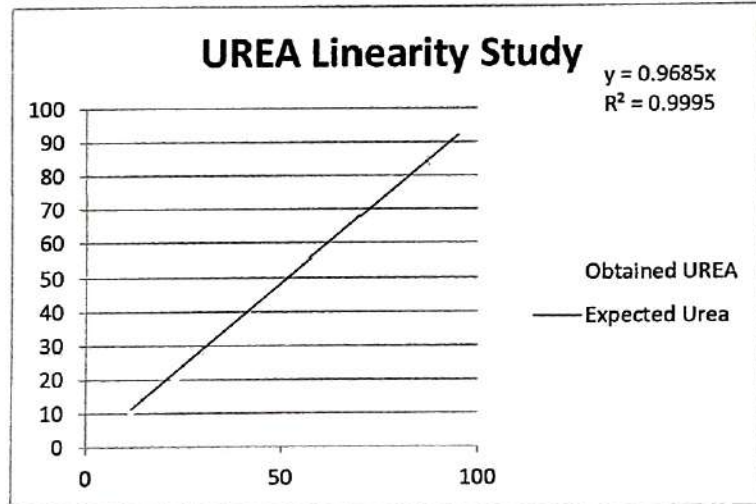
Instrument Serial Nun

2002118

Urea Linearity Study

Date performed: 27-03-23

Dilution Factor	Expected UREA	Obtained UREA
Original Sample	95	93
1/2dilution	47	43.7
1/2dilution	23	21.5
1/2dilution	11.5	11.9



S. Nagaraj  
Company Representative  
Sing: S. Nagaraj  
Date: 27/3/23

Customer Authorization

Sing: [Signature]  
Date: 27/3/23

[Signature]

# GLOBAL DIAGNOSTICS

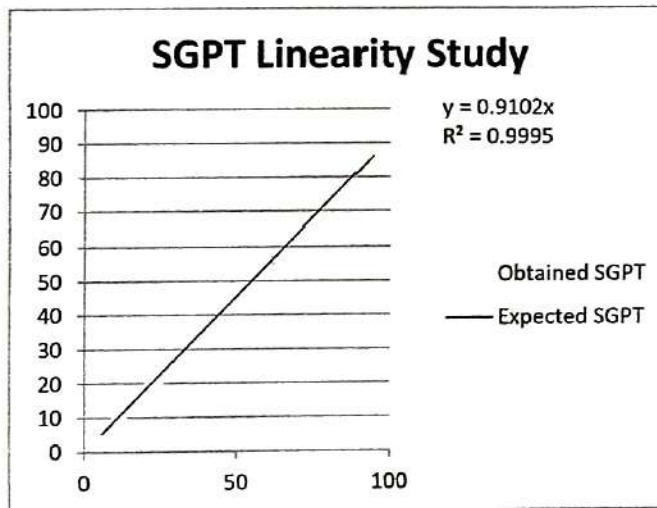
Instrument Name: EM 200

Instrument Serial Num 2002118

SGPT Linearity Study

Date performed: 27-03-23

Dilution Factor	Expected SGPT	Obtained SGPT
Original Sample	94.7	86.5
1/2dilution	47	43.1
1/2dilution	23	19.9
1/2dilution	11.5	9.6
1/2dilution	5.7	3.5



Company Representative

Sing: *[Signature]*  
Date: *27/03/23*

Customer Authorization

Sing: *[Signature]*  
Date: *27/03/23*

*[Signature]*

# GLOBAL DIAGNOSTICS

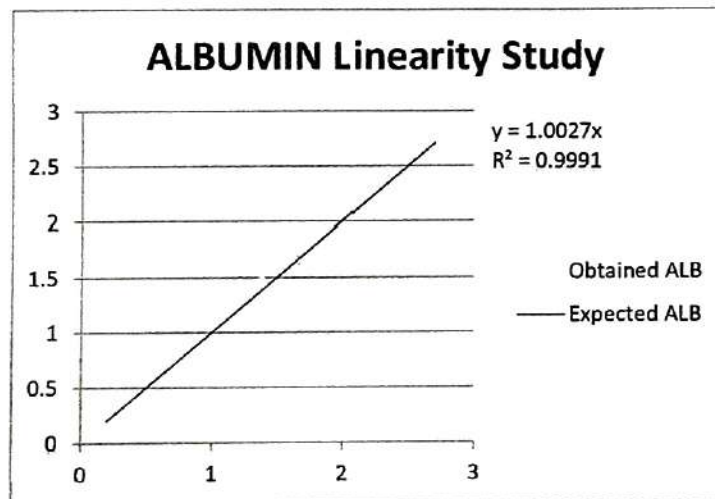
Instrument Name: EM 200

Instrument Serial Nun 2002118

ALB Linearity Study

Date performed: 27-03-23

Dilution Factor	Expected ALB	Obtained ALB
Original Sample	2.7	2.66
1/2dilution	1.38	1.44
1/2dilution	0.7	0.76
1/2dilution	0.38	0.4
1/2dilution	0.2	0.21



Company Representative

Sing: *P. Nafar*  
Date: *27/3/23*

Customer Authorization

Sing: *[Signature]*  
Date: *27/3/23*

*[Faint circular stamp]*  
*[Signature]*

# GLOBAL DIAGNOSTICS

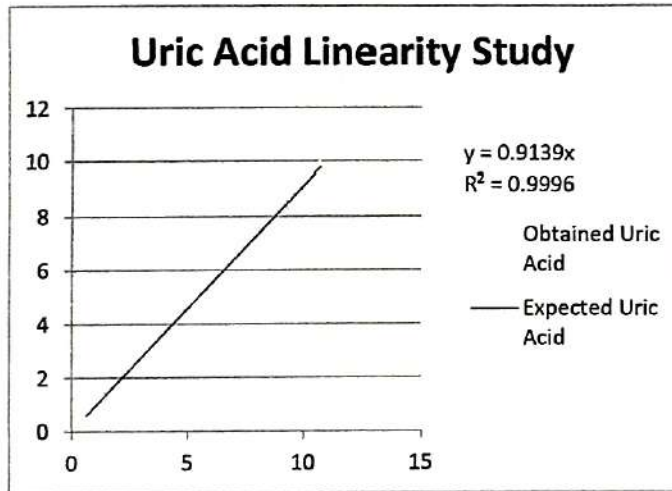
Instrument Name:EM 200

Instrument Serial N 2002118

UA Linearity Study

Date performed:27-03-23

Dilution Factor	Expected Uric Acid	Obtained Uric Acid
Original Sample	10.7	9.7
1/2dilution	5.3	4.9
1/2dilution	2.6	2.5
1/2dilution	1.3	1.3
1/2dilution	0.65	0.7



Company Representative

Sing: *S. Nakae*  
Date: *27/3/23*

Customer Authorization

Sing: *[Signature]*  
Date: *27/3/23*

*[Signature]*



# GLOBAL DIAGNOSTICS

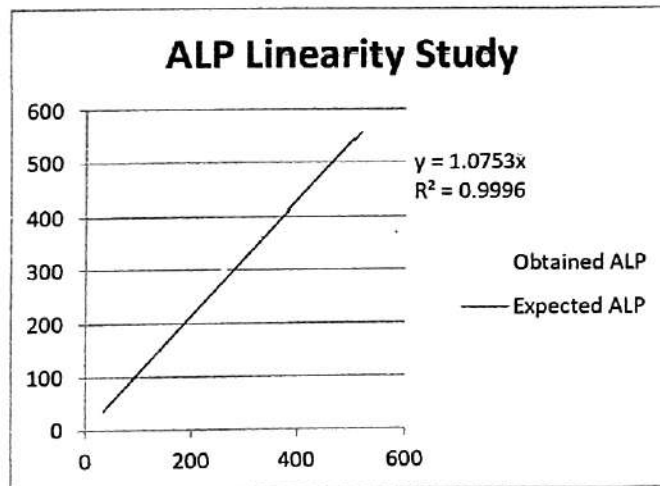
Instrument Name: EM 200

Instrument Serial Number: 2002118

ALP Linearity Study

Date performed: 27-03-23

Dilution Factor	Expected ALP	Obtained ALP
Original Sample	517	550
1/2 dilution	260	289
1/2 dilution	130	142
1/2 dilution	65	74
1/2 dilution	33	37



Company Representative

Sig: *[Signature]*  
Date: 27/3/23

Customer Authorization

Sig: *[Signature]*  
Date: 27/3/23

*[Signature]*

# GLOBAL DIAGNOSTICS

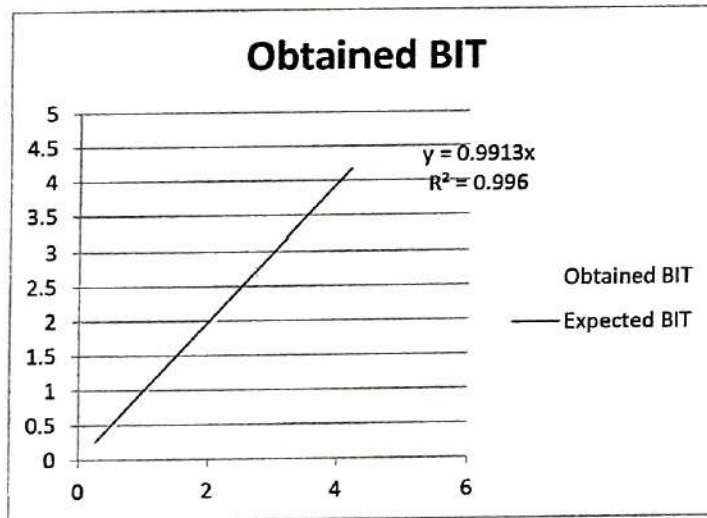
Instrument Name: EM 200

Instrument Serial No 2002118

BIT Linearity Study

Date performed: 27-03-23

Dilution Factor	Expected BIT	Obtained BIT
Original Sample	4.2	4.31
1/2dilution	2.1	1.9
1/2dilution	1.05	0.88
1/2dilution	0.52	0.42
1/2dilution	0.26	0.2



Company Representative

Sig: 

Date: 27/3/23

Customer Authorization

Sig: 

Date: 27/3/23



# GLOBAL DIAGNOSTICS

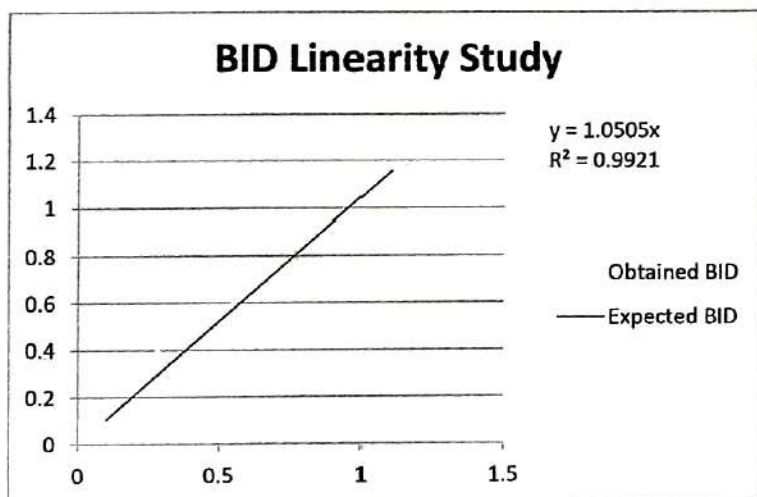
Instrument Name:EM 200

Instrument Serial Nu 2002118

BID Linearity Study

Date performed:27-03-23

Dilution Factor	Expected BID	Obtained BID
Original Sample	1.1	1.1
1/2dilution	0.55	0.63
1/2dilution	0.28	0.37
1/2dilution	0.19	0.24
1/2dilution	0.1	0.14



Company Representative

Sing: *[Signature]*  
Date: 27/3/23

Customer Authorization

Sing: *[Signature]*  
Date: 27/3/23

*[Signature]*

## Result Reprint

Report Type : Controls

27-Mar-2023

Consumable: BIORAD L2

Sr #	Lot #	Consumable	Test	Result Unit	Flag	Curve #	Result Date	Mean	SD	Interval (3SD)
1	89702	BIORAD L2	SGPTD	86.5 U/L		130899	27-Mar-2023 08:26:56	94.700	9.550	66.05 - 123.35
2	89702	BIORAD L2	ALPU	550 U/L		130901	27-Mar-2023 08:27:32	517.000	51.000	364 - 670
3	89702	BIORAD L2	BID	1.10 mg/dl		130905	27-Mar-2023 08:28:44	0.990	0.120	0.63 - 1.35
4	89702	BIORAD L2	BIT	4.31 mg/dl		130907	27-Mar-2023 08:29:20	4.210	0.520	2.65 - 5.77
5	89702	BIORAD L2	UREA	93.0 mg/dl		130909	27-Mar-2023 08:29:56	100.000	7.500	77.5 - 122.5
6	89702	BIORAD L2	CRENZ	4.88 mg/dl		130911	27-Mar-2023 08:30:32	5.200	0.450	3.85 - 6.55
7	89702	BIORAD L2	GLU	285.2 mg/dl		130913	27-Mar-2023 08:31:08	291.000	22.500	223.5 - 358.5
8	89702	BIORAD L2	CA	12.4 mg/dl		130921	27-Mar-2023 08:33:33	13.000	1.050	9.85 - 16.15
9	89702	BIORAD L2	ALBD	2.66 g/dl		130923	27-Mar-2023 08:34:09	2.700	0.210	2.07 - 3.33
10	89702	BIORAD L2	PRO	4.56 g/dl		130925	27-Mar-2023 08:34:45	4.600	0.300	3.7 - 5.5
11	89702	BIORAD L2	SGOTN	166.1 U/L	-1SD	130927	27-Mar-2023 08:35:21	187.000	18.000	133 - 241
12	89702	BIORAD L2	UAM	8.7 mg/dl	-2SD	130929	27-Mar-2023 08:35:57	10.700	0.750	8.45 - 12.95



Sample ID ~~CARRYOVER1~~ *Linearity*

Patient ID

Name

Sample Type SERUM

Category -

Collection Date 27-Mar-2023

Age -

Reg. Date 27-Mar-2023

Ref. Dr

Analyst

Sample Remark

Location

Sr.No.	Test	Result	Flag	Normal Range
1	ALT/GPT	43.1 U/L		0.0 - 45.0 U/L
2	AST/GOT	80.6 U/L	H	↑ 0.0 - 35.0 U/L
3	Alkaline Phosphatase	289 U/L	H	↑ 53 - 128 U/L
4	Bilirubin Direct	0.63 mg/dl	H	↑ 0.00 - 0.20 mg/dl
5	Bilirubin Total	1.90 mg/dl		0.00 - 2.00 mg/dl
6	Urea	43.7 mg/dl		18.0 - 55.0 mg/dl
7	Creatinine ENZ	2.73 mg/dl	H	↑ 0.70 - 1.30 mg/dl
8	Glucose	144.3 mg/dl	H	↑ 74.0 - 100.0 mg/dl
9	Uric Acid	4.9 mg/dl		3.5 - 7.2 mg/dl
10	Calcium	6.6 mg/dl	L	↓ 8.6 - 10.2 mg/dl
11	Albumin	1.44 g/dl	L	↓ 3.50 - 5.20 g/dl
12	Total Protein	2.36 g/dl	L	↓ 6.40 - 8.30 g/dl

Patient Remark

Completion Date 27-Mar-2023 13:07

Note : Tests have been performed on fully automated analyzer:- EM 200

*[Signature]*  
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