

**CALIBRATION CERTIFICATE**

**INSTRUMENT ISSUE**

**MODEL NO**

: TURBOCHEMNEO

**SERIAL NO**

: SHY200M20108497

**SOFTWARE VERSION**

: M.2.1.1.2D YD C

**MANUFACTURER**

: SHANDONG BIOBASE BIOTECH CO LTD.CH N

**DISTRIBUTOR**

: CPC DIAGNOSTICS PVT. LTD.,

No. 324, KHADI GRAMMODYOG COMPLEX,

AVVAI SHANMUGAM SALAI, GOPALAPURAM,  
CHENNAI-86

**CUSTOMER NAME**

: MANJERI CLINICAL LABORATORY & IDEAL X-RAYS

**DATE OF INSTALLATION**

: 20/10/2021

**CORPORATE OFFICE**

No.70/6, Old No.108/6, 4th floor, Westminster, Dr. Radhakrishnan Salai, Mylapore, Chennai - 600 004.  
Phone No: 044-23460168/169

Enabling Better Outcomes

**PERFORMANCE QUALIFICATION**

**Photometer stability 30000- 60000**

All cuvettes gain at all wave length should be within 30000-60000 **PASSED**

**PRECISION CHECK**

This module is highlighting the reproducibility and pipetting accuracy of the system. Measuring criteria

1. One end point chemistry
2. One kinetic chemistry
3. Large sample chemistry
4. Small sample chemistry
5. R1 only
6. R1 + R2

BY DOING PRECISION CHECK WITH GLUCOSE, ALT, CREATININE ABOVE REQUIREMENT WILL BE COMPLETED.

**DETAILS OF REAGENTS, CALIBRATORS AND CONTROLS**

REAGENTS	: I CHEME
CALIBRATOR	: RANDOX Calibrator (LOT NO 757U3)
CONTROL	: BIORAD Level 1-

For CPC DIAGNOSTICS PVT LTD.,

*A. merilema*

Authorised Signatory



**CORPORATE OFFICE**

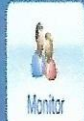
No.70/6, Old No.108/6, 4th floor, Westminster, Dr. Radhakrishnan Salai, Mylapore, Chennai - 600 004.  
Phone No: 044-23460168/169



Stand by

Current User:1000

Time:2021-12-22 15:55:02



ItemPar CalibrationPar QC Parameter Specific Item Parameters' Setting

- Item List
- Albumin
- ALP
- ALT
- AST
- Cholesterol
- Direct Bilirubin
- Glucose
- HDL
- Total Bilirubin
- Triglycerides
- Uric acid
- Urea
- Total Protein
- Creatinine

Item Name: Albumin Repeat Counts: 1

Calibration Type: Two Point Lin Sample Type: serum CurTime: 2021-12-19 09:06:12

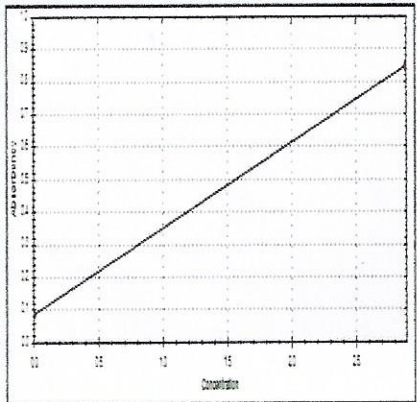
Standard Counts: 2 Factor: 3.7892 Calibration status: Succeeded

Set Current Calibration

Delete Calibration

Standard	Lot No	Absorbance	Concentration	Cup No	
1	1156UE	0.0832	0.00	1	2021-06-22 17:10:57
2	1156UE	0.8459	2.89	2	2021-10-19 16:30:31
					2021-10-22 12:35:29
					2021-10-22 13:37:26
					2021-11-11 12:43:43
					2021-11-30 11:57:24
					2021-12-19 09:06:12

1	1156UE	0.0832	0.0000	1
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Edit Result

Calibration Setting

Save



Stand by

Current User:1000

Time:2021-12-22 15:56:40



ItemPar CalibrationPar QC Parameter Specific Item Parameters' Setting

Item List

- Albumin
- ALP**
- ALT
- AST
- Cholesteroi
- Direct Bilirubin
- Glucose
- HDL
- Total Bilirubin
- Triglycerides
- Unc acid
- Urea
- Total Protein
- Creatinine

Item Name: ALP Repeat Counts: 1

Set Current Calibration

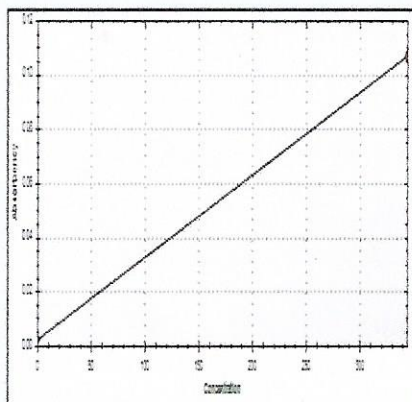
Delete Calibration

Calibration Type: Two Point Lin Sample Type: serum CurTime: 2021-12-20 09:19:14

Standard Counts: 2 Factor: 3298.2692 Calibration status: Succeeded

Standard	Lot No	Absorbance	Concentration	Cup No	
1	1158UE	0.0023	0.00	1	2021-06-13 12:57:35
2	1158UE	0.1066	344.00	2	2021-10-19 16:30:31
					2021-10-22 12:35:29
					2021-10-22 14:01:02
					2021-11-09 09:55:06
					2021-12-20 09:19:14

1	1158UE	0.0023	0.0000	1
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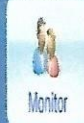
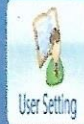
Edit Result

Calibration Setting

Save



Stand by



ItemPar CalibrationPar QC Parameter Specific Item Parameters' Setting

Item List

- Albumin
- ALP
- ALT**
- AST
- Cholesterol
- Direct Bilirubin
- Glucose
- HDL
- Total Bilirubin
- Tnglycerides
- Unc acid
- Urea
- Total Protein
- Creadinine

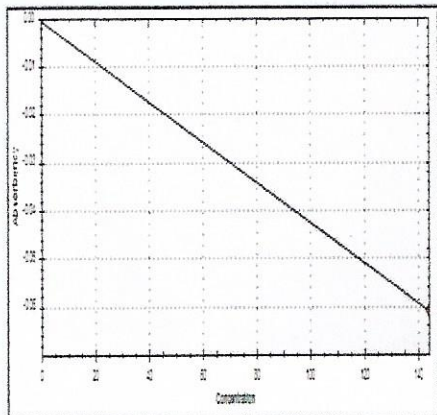
Item Name: ALT Repeat Counts: 1  
 Calibration Type: Two Point Lin Sample Type: serum CurTime: 2021-12-19 09:06:12  
 Standard Counts: 2 Factor: 2371.6998 Calibration status: Succeeded

Set Current Calibration  
 Delete Calibration

Standard	Lot No	Absorbance	Concentration	Cup No
1	1158UE	-0.0006	0.00	1
2	1158UE	-0.0613	144.00	2

- 2021-06-13 12:57:35
- 2021-10-19 16:30:31
- 2021-10-22 12:35:29
- 2021-10-22 14:01:02
- 2021-11-02 16:47:54
- 2021-11-03 11:03:19
- 2021-11-11 12:43:43
- 2021-11-17 11:34:11
- 2021-11-24 09:22:32
- 2021-11-30 11:57:24
- 2021-12-04 09:55:19
- 2021-12-19 09:06:12**

1 1158UE -0.0006 0.0000 1



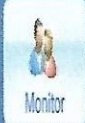
Edit Result

Calibration Setting

Save



Stand by



ItemPar CalibrationPar QC Parameter Specific Item Parameters' Setting

Item List

- Albumin
- ALP
- ALT
- AST**
- Cholesterol
- Direct Bilirubin
- Glucose
- HDL
- Total Bilirubin
- Triglycerides
- Uric acid
- Urea
- Total Protein
- Creatinine

Item Name: AST Repeat Counts: 1

Set Current Calibration

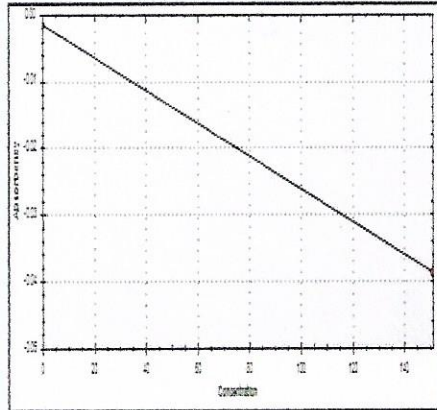
Delete Calibration

Calibration Type: Two Point Lin Sample Type: serum CurTime: 2021-12-21 09:18:33

Standard Counts: 2 Factor: 4059.4979 Calibration status: Succeeded

Standard	Lot No	Absorbance	Concentration	Cup No	
1	1158UE	-0.0015	0.00	1	2021-06-13 12:57:35
2	1158UE	-0.0387	151.00	2	2021-10-19 16:30:31
					2021-10-22 12:35:29
					2021-10-22 14:01:02
					2021-11-18 09:55:06
					2021-12-03 10:10:19
					2021-12-21 09:18:33

1	1158UE	-0.0015	0.0000	1
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Edit Result

Calibration Setting

Save



Stand by



ItemPar CalibrationPar QC Parameter Specific Item Parameters' Setting

Item List

- Albumin
- ALP
- ALT
- AST
- Cholesterol**
- Direct Bilirubin
- Glucose
- HDL
- Total Bilirubin
- Triglycendes
- Unc acid
- Urea
- Total Protein
- Creatinine

Item Name: Cholesterol Repeat Counts: 1

Set Current Calibration

Delete Calibration

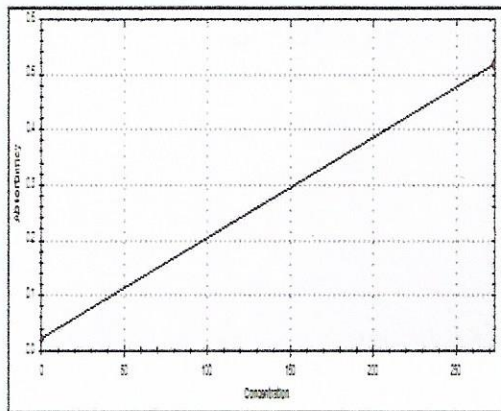
Calibration Type: Two Point Lin Sample Type: serum CurTime: 2021-12-06 08:58:01

Standard Counts: 2 Factor: 550.9834 Calibration status: Succeeded

Standard	Lot No	Absorbance	Concentration	Cup No
1	1156UE	0.0196	0.00	1
2	1156UE	0.5151	273.00	2

- 2021-06-13 12:57:35
- 2021-10-19 16:30:31
- 2021-10-22 12:35:29
- 2021-10-22 14:01:02
- 2021-11-17 09:02:17
- 2021-12-06 08:58:01**

1 1156UE 0.0196 0.0000 1



Edit Result

Calibration Setting

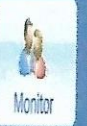
Save



Stand by

Current User:1000

Time:2021-12-22 16:02:35



ItemPar CalibrationPar QC Parameter Specific Item Parameters' Setting

Item List

- Albumin
- ALP
- ALT
- AST
- Cholesterol
- Direct Bilirubin**
- Glucose
- HDL
- Total Bilirubin
- Triglycerides
- Uric acid
- Urea
- Total Protein
- Creatinine

Item Name: Direct Bilirubin Repeat Counts: 1

Set Current Calibration

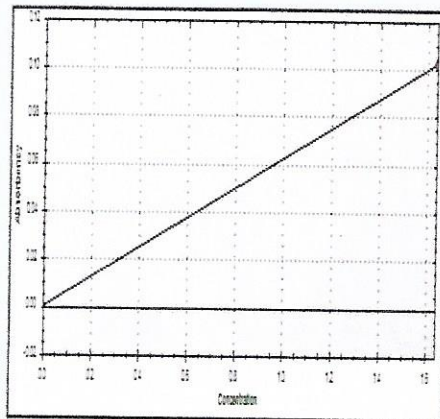
Delete Calibration

Calibration Type: Two Point Lin Sample Type: serum CurTime: 2021-12-15 09:34:06

Standard Counts: 2 Factor: 16.1043 Calibration status: Succeeded

Standard	Lot No	Absorbance	Concentration	Cup No	
1	1156UE	0.0002	0.00	1	2021-06-13 12:57:35
2	1156UE	0.1016	1.64	2	2021-10-19 16:30:31
					2021-10-22 12:35:29
					2021-10-22 14:01:02
					2021-11-02 16:47:54
					2021-11-04 14:24:18
					2021-11-19 16:49:52
					2021-12-15 09:34:06

1 1156UE 0.0008 0.0000 1



Edit Result

Calibration Setting

Save





Stand by

- Program Input
- Item Setting
- Reagent
- Data Processing
- Maintenance
- User Setting
- Monitor
- Exit

ItemPar CalibrationPar QC Parameter Specific Item Parameters' Setting

Item List

- Albumin
- ALP
- ALT
- AST
- Cholesterol
- Direct Bilirubin
- Glucose
- HDL
- Total Bilirubin
- Tinglycendes
- Unc acid
- Urea
- Total Protein
- Creatinine

Item Name: Glucose Repeat Counts: 1

Set Current Calibration

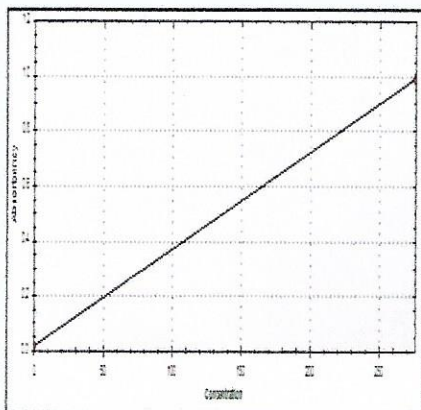
Delete Calibration

Calibration Type: Two Point Lin Sample Type: serum CurTime: 2021-12-06 08:58:01

Standard Counts: 2 Factor: 284.26 Calibration status: Succeeded

Standard	Lot No	Absorbance	Concentration	Cup No	
1	1156UE	0.0183	0.00	1	2021-06-18 14:12:25
2	1156UE	0.9892	276.00	2	2021-10-19 16:30:31
					2021-10-22 12:35:29
					2021-10-22 14:01:02
					2021-11-02 16:47:54
					2021-11-11 12:43:43
					2021-11-13 12:19:47
					2021-11-17 11:34:11
					2021-12-06 08:58:01

1 1156UE 0.0183 0.0000 1



Edit Result

Calibration Setting

Save



Stand by

Current User: 1000

Time: 2021-12-22 16:05:29



ItemPar CalibrationPar QC Parameter Specific Item Parameters' Setting

Item List

- Albumin
- ALP
- ALT
- AST
- Cholesterol
- Direct Bilirubin
- Glucose
- HDL**
- Total Bilirubin
- Triglycerides
- Unc acid
- Urea
- Total Protein
- Creatinine

Item Name: HDL Repeat Counts: 1

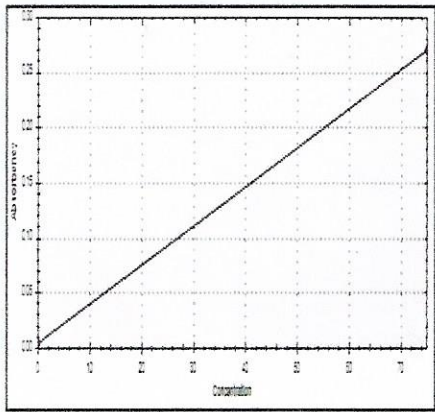
Set Current Calibration Delete Calibration

Calibration Type: Two Point Lin Sample Type: serum CurTime: 2021-12-08 09:36:01

Standard Counts: 2 Factor: 281.6861 Calibration status: Succeeded

Standard	Lot No	Absorbance	Concentration	Cup No	
1	295360	0.0040	0.00	1	2021-10-19 16:30:31
2	295360	0.2703	75.00	2	2021-10-19 17:57:17
					2021-10-20 16:45:15
					2021-11-22 09:04:04
					2021-12-08 09:36:01

1 295360 0.0040 0.0000 1



Edit Result

Calibration Setting

Save



37.8° C 18:07:47 Need about 0 Hour 9 Minutes 36 Seconds

Current User: 1000

Time: 2021-12-23 13:08:07



ItemPar CalibrationPar QC Parameter Specific Item Parameters' Setting

Item List

- Albumin
- ALP
- ALT
- AST
- Cholesterol
- Direct Bilirubin
- Glucose
- HDL
- Total Bilirubin
- Triglycerides
- Uric acid
- Urea
- Total Protein
- Creatinine

Item Name: Total Bilirubin Repeat Counts: 1

Set Current Calibration

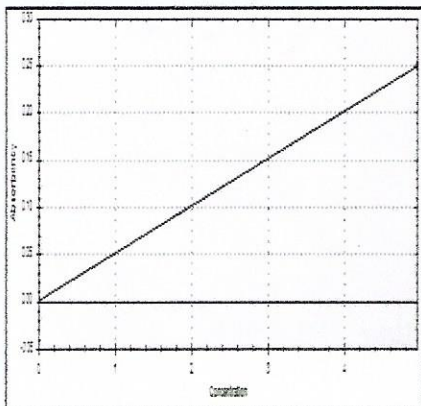
Delete Calibration

Calibration Type: Two Point Lin Sample Type: sera CurTime: 2021-12-10 09:29:23

Standard Counts: 2 Factor: 19.8003 Calibration status: Succeeded

Standard	Lot No.	Absorbance	Concentration	Cup No.	
1	1156UE	0.0000	0.00	1	2021-06-15 12:24:39
2	1156UE	0.2498	4.98	2	2021-10-19 16:30:31
					2021-10-22 12:35:29
					2021-10-22 14:01:02
					2021-11-19 16:49:52
					2021-11-23 13:38:46
					2021-12-10 09:29:23

1 1156UE 0.0000 0.0000 1



Edit Result

Calibration Setting

Save



Stand by



ItemPar CalibrationPar QC Parameter Specific Item Parameters' Setting

Item List

- Albumin
- ALP
- ALT
- AST
- Cholesterol
- Direct Bilirubin
- Glucose
- HDL
- Total Bilirubin
- Triglycerides**
- Unc acid
- Urea
- Total Protein
- Creatinine

Item Name: Triglycerides Repeat Counts: 1

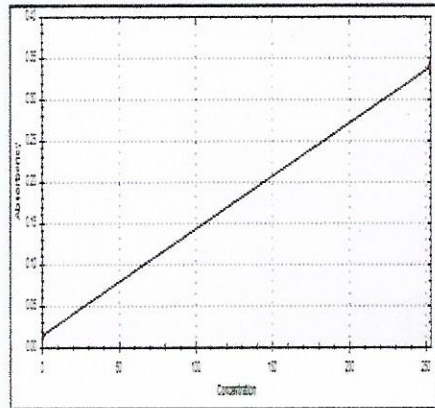
Set Current Calibration

Delete Calibration

Calibration Type: Two Point Lin Sample Type: serum CurTime: 2021-12-16 10:12:10

Standard Counts: 2 Factor: 781.3874 Calibration status: Succeeded

Standard	Lot No.	Absorbance	Concentration	Cup No.	
1	1158UE	0.0135	0.00	1	2021-06-13 12:57:35
2	1158UE	0.3373	253.00	2	2021-10-19 18:30:31
					2021-10-22 12:35:29
					2021-10-22 14:01:02
					2021-11-02 16:47:54
					2021-11-03 11:03:19
					2021-11-11 12:43:43
					2021-11-13 12:19:47
					2021-11-19 16:49:52
1	1158UE	0.0135	0.0000	1	2021-12-16 10:12:10



Edit Result

Calibration Setting

Save



Stand by



ItemPar CalibrationPar QC Parameter Specific Item Parameters' Setting

Item List

- Albumin
- ALP
- ALT
- AST
- Cholesterol
- Direct Bilirubin
- Glucose
- HDL
- Total Bilirubin
- Trglycendes
- Uric acid
- Urea
- Total Protein
- Creatinine

Item Name: Uric acid Repeat Counts: 1

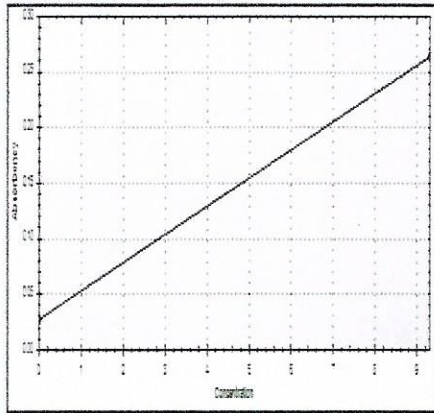
Set Current Calibration

Delete Calibration

Calibration Type: Two Point Lin Sample Type: serum CurTime: 2021-12-15 09:34:06

Standard Counts: 2 Factor: 39.4119 Calibration status: Succeeded

Standard	Lot No	Absorbance	Concentration	Cup No	
1	1158UE	0.0263	0.00	1	2021-10-22 12:35:29
2	1158UE	0.2625	9.31	2	2021-10-22 14:01:02
					2021-11-09 10:19:34
					2021-11-11 12:43:43
					2021-11-13 12:19:47
					2021-11-17 11:34:11
					2021-11-23 10:30:15
					2021-11-30 11:57:24
					2021-12-02 13:13:01
					2021-12-03 10:10:19
					2021-12-06 08:58:01
					2021-12-15 09:34:06



Edit Result

Calibration Setting

Save



Stand by

- Program Input
- Item Setting
- Reagent
- Data Processing
- Maintenance
- User Setting
- Monitor
- Exit

ItemPar CalibrationPar QC Parameter Specific Item Parameters' Setting

- Albumin
- ALP
- ALT
- AST
- Cholesterol
- Direct Bilirubin
- Glucose
- HDL
- Total Bilirubin
- Triglycerides
- Uric acid
- Urea**
- Total Protein
- Creatinine

Item Name: Urea Repeat Counts: 1

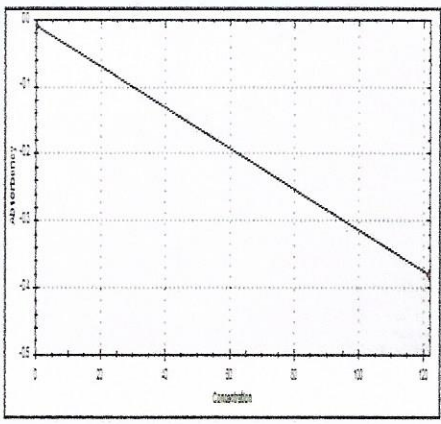
Set Current Calibration Delete Calibration

Calibration Type: Two Point Link Sample Type: serum CurTime: 2021-12-18 12:57:42

Standard Counts: 2 Factor: 327.7888 Calibration status: Succeeded

Standard	Lot No.	Absorbance	Concentration	Cup No.	
1	1156UE	-0.0109	0.00	1	2021-11-05 13:18:02
2	1156UE	-0.3831	122.00	2	2021-11-11 12:43:43
					2021-11-17 11:34:11
					2021-11-20 13:43:32
					2021-11-23 10:30:15
					2021-11-26 13:11:57
					2021-12-01 09:07:30
					2021-12-08 13:11:33
					2021-12-10 09:29:23
					2021-12-17 10:16:55
					2021-12-18 12:57:42
					2021-12-21 09:18:33

1    1156UE    -0.0099    0.0000    1



Edit Result Calibration Setting Save



Stand by

Current User:1000

Time:2021-12-22 16:12:29



ItemPar CalibrationPar QC Parameter Specific Item Parameters' Setting

Item List

- Albumin
- ALP
- ALT
- AST
- Cholesterol
- Direct Bilirubin
- Glucose
- HDL
- Total Bilirubin
- Tnglycides
- Unc acid
- Urea
- Total Protein
- Creatinine

Item Name: Total Protein Repeat Counts: 1

Set Current Calibration

Delete Calibration

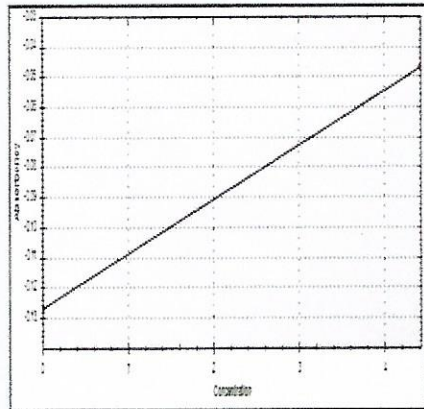
Calibration Type: Two Point Lin Sample Type: serum CurTime: 2021-12-18 09:19:54

Standard Counts: 2 Factor: 55.3222 Calibration status: Succeeded

Standard	Lot No.	Absorbance	Concentration	Cup No.
1	1158UE	-0.1270	0.00	1
2	1158UE	-0.0489	4.43	2

- 2021-06-13 12:57:35
- 2021-10-19 16:30:31
- 2021-10-22 12:35:29
- 2021-10-22 14:01:02
- 2021-11-17 11:34:11
- 2021-11-30 11:57:24
- 2021-12-18 09:19:54

1 1158UE -0.1270 0.0000 1



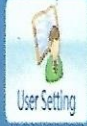
Edit Result

Calibration Setting

Save



Stand by



ItemPar CalibrationPar QC Parameter Specific Item Parameters' Setting

Item List

- Albumin
- ALP
- ALT
- AST
- Cholesterol
- Direct Bilirubin
- Glucose
- HDL
- Total Bilirubin
- Tnglycerides
- Unc acid
- Urea
- Total Protein
- Creatinine**

Item Name: Creatinine Repeat Counts: 1

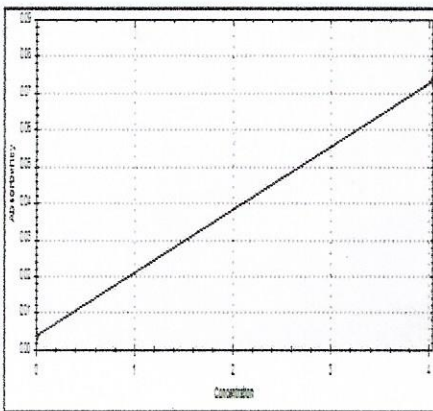
Set Current Calibration

Delete Calibration

Calibration Type: Two Point Lin Sample Type: serum CurTime: 2021-12-22 10:27:09

Standard Counts: 2 Factor: 57.83 Calibration status: Succeeded

Standard	Lot No.	Absorbance	Concentration	Cup No	
1	1158UE	0.0034	0.00	1	2021-12-09 08:40:25
2	1158UE	0.0732	4.04	2	2021-12-10 09:29:23
					2021-12-10 12:23:33
					2021-12-14 09:02:22
					2021-12-15 09:34:06
					2021-12-16 09:29:20
					2021-12-17 09:40:25
					2021-12-18 09:19:54
					2021-12-19 09:06:12
					2021-12-20 09:19:14
					2021-12-21 09:18:33
					2021-12-22 10:27:09



Edit Result

Calibration Setting

Save



# MANJERI CLINICAL LABORATORY & IDEAL X-RAYS

QC Lot No.:26491

QC Order No.:1

NO	Item	Result	Target	Unit	Result Reference
1	Albumin	3.4	3.92	g/dl	3.664--4.176
2	ALT	27	31.4	U/L	28.38--34.42
3	AST	30.8	35.4	U/L	30.08--40.72
4	Cholesterol	218.82	254.5	mg/dL	233.26--275.74
5	Direct Bilirubin	0.27	0.291	mg/dL	0.261--0.321
6	HDL	46.9	60.01	mg/dL	50.03--69.99
7	Triglycerides	157.11	160.63	mg/dL	149.69--171.57
8	Uric acid	4	4.48	mg/dL	4.18--4.78
9	Total Protein	5.6	6.3	g/dl	5.928--6.672
10	Creatinine	1.8	2.01	mg/dL	1.884--2.136

Report Date:2021-12-23 19:41:26

Submission Date:2021-12-19

Audit:

\*\*Results only for this test\*\*

# MANJERI CLINICAL LABORATORY & IDEAL X-RAYS

QC Lot No.:26491

QC Order No.:2

NO	Item	Result	Target	Unit	Result Reference
1	ALP	74	102.8	U/L	89.8--115.8
2	Glucose	82.9	80.94	mg/dL	77.74--84.14
3	Total Bilirubin	0.9	0.92	mg/dL	0.876--0.964
4	Urea	29	31.97	mg/dL	28.62--35.32

Report Date:2021-12-23 19:41:37

Submission Date:2021-12-19

Audit:

\*\*Results only for this test\*\*

# MANJERI CLINICAL LABORATORY & IDEAL X-RAYS

QC Lot No.:26491

QC Order No.:1

NO	Item	Result	Target	Unit	Result Reference
1	Albumin	3.9	3.92	g/dl	3.664--4.176
2	ALP	107	102.8	U/L	89.8--115.8
3	ALT	33.8	31.4	U/L	28.38--34.42
4	Cholesterol	253.95	254.5	mg/dL	233.26--275.74
5	Direct Bilirubin	0.32	0.291	mg/dL	0.261--0.321
6	Glucose	84.7	80.94	mg/dL	77.74--84.14
7	HDL	54.2	60.01	mg/dL	50.03--69.99
8	Total Bilirubin	0.9	0.92	mg/dL	0.876--0.964
9	Triglycerides	179.1	160.63	mg/dL	149.69--171.57
10	Uric acid	5	4.48	mg/dL	4.18--4.78
11	Urea	26.4	31.97	mg/dL	28.62--35.32
12	Total Protein	6.6	6.3	g/dl	5.928--6.672
13	Creatinine	2.1	2.01	mg/dL	1.884--2.136

Report Date:2021-12-23 19:42:15

Submission Date:2021-12-20

Audit:

\*\*Results only for this test\*\*

# MANJERI CLINICAL LABORATORY & IDEAL X-RAYS

QC Lot No.:26491

QC Order No.:1

NO	Item	Result	Target	Uint	Result Reference
1	Albumin	3.9	3.92	g/dl	3.664--4.176
2	ALP	103	102.8	U/L	89.8--115.8
3	ALT	32.4	31.4	U/L	28.38--34.42
4	AST	38.5	35.4	U/L	30.08--40.72
5	Cholesterol	243.89	254.5	mg/dL	233.26--275.74
6	Direct Bilirubin	0.32	0.291	mg/dL	0.261--0.321
7	Glucose	81.4	80.94	mg/dL	77.74--84.14
8	HDL	52.8	60.01	mg/dL	50.03--69.99
9	Total Bilirubin	0.9	0.92	mg/dL	0.876--0.964
10	Triglycerides	175.45	160.63	mg/dL	149.69--171.57
11	Uric acid	5	4.48	mg/dL	4.18--4.78
12	Urea	29.7	31.97	mg/dL	28.62--35.32
13	Total Protein	6.4	6.3	g/dl	5.928--6.672
14	Creatinine	1.9	2.01	mg/dL	1.884--2.136

Report Date:2021-12-23 19:42:23

Submission Date:2021-12-21

Audit:

**\*\*Results only for this test\*\***

# MANJERI CLINICAL LABORATORY & IDEAL X-RAYS

QC Lot No.:26491

QC Order No.:1

NO	Item	Result	Target	Uint	Result Reference
1	Albumin	3.8	3.92	g/dl	3.664--4.176
2	ALP	106	102.8	U/L	89.8--115.8
3	ALT	33.5	31.4	U/L	28.38--34.42
4	AST	40.9	35.4	U/L	30.08--40.72
5	Cholesterol	243.85	254.5	mg/dL	233.26--275.74
6	Direct Bilirubin	0.3	0.291	mg/dL	0.261--0.321
7	Glucose	82.2	80.94	mg/dL	77.74--84.14
8	HDL	54.9	60.01	mg/dL	50.03--69.99
9	Total Bilirubin	0.9	0.92	mg/dL	0.876--0.964
10	Triglycerides	179.51	160.63	mg/dL	149.69--171.57
11	Uric acid	5	4.48	mg/dL	4.18--4.78
12	Urea	28.8	31.97	mg/dL	28.62--35.32
13	Total Protein	6.6	6.3	g/dl	5.928--6.672
14	Creatinine	2	2.01	mg/dL	1.884--2.136

Report Date:2021-12-23 19:42:35

Submission Date:2021-12-22

Audit:

\*\*Results only for this test\*\*

# MANJERI CLINICAL LABORATORY & IDEAL X-RAYS

QC Lot No.:26491

QC Order No.:1

NO	Item	Result	Target	Unit	Result Reference
1	Albumin	3.9	3.92	g/dl	3.664--4.176
2	ALP	102	102.8	U/L	89.8--115.8
3	ALT	33.5	31.4	U/L	28.38--34.42
4	AST	41	35.4	U/L	30.08--40.72
5	Cholesterol	253.95	254.5	mg/dL	233.26--275.74
6	Direct Bilirubin	0.31	0.291	mg/dL	0.261--0.321
7	Glucose	80.1	80.94	mg/dL	77.74--84.14
8	HDL	55.2	60.01	mg/dL	50.03--69.99
9	Total Bilirubin	0.9	0.92	mg/dL	0.876--0.964
10	Triglycerides	177.5	160.63	mg/dL	149.69--171.57
11	Uric acid	5	4.48	mg/dL	4.18--4.78
12	Urea	29.1	31.97	mg/dL	28.62--35.32
13	Total Protein	6.4	6.3	g/dl	5.928--6.672
14	Creatinine	2	2.01	mg/dL	1.884--2.136

Report Date:2021-12-23 19:42:47

Submission Date:2021-12-23



Audit:

\*\*Results only for this test\*\*

**INSTALLATION QUALIFICATION**


**INSTRUMENT ISSUE**

MODEL NO : Turbochem NEO  
SERIAL NO : SHY200M20108497  
SOFTWARE VERSION : M,2.1.1.2D YD C  
MANUFACTURER : SHANDONG BIOBASE BIOTECH CO LTD.CHINA  
DISTRIBUTOR : CPC DIAGNOSTICS PVT. LTD.,  
No. 324, KHADI GRAMMODYOG  
COMPLEX,AVVAI SHANMUGAM SALAI,  
GOPALAPURAM, CHENNAI-86  
CUSTOMER NAME : MANJERI CLINIAL LABORATORY & IDEAL X-RAYS  
DATE OF INSTALLATION: 20-10-2021  
ENGINEER (FOR CPC DIAGNOSTICS PVT. LTD.)

SIGNATURE :   
For CPC DIAGNOSTICS PVT LTD,  
Authorised Signatory. 

NAME : MR.MAGESHWARAN  
DESIGNATION : TECHNICAL MANAGER  
COMPANY : CPC DIAGNOSTICS PVT. LTD.

**CUSTOMER (MANJERI CLINIAL LABORATORY & IDEAL X-RAYS)**

SIGNATURE : .....  
NAME : M.ALIKOYA   
DESIGNATION : MANAGER

**INSTALLATION REQUIREMENTS**

**Installation Environment Conditions**

Place should not be subjected to direct sunlight  
Place should be flat and minimum of dust.

**Power Supply**

Voltage 220-240V AC  
1.0 KVA Online UPS.

**Temperature And Humidity Conditions**

The temperature of the analyzer room should be between 18 - 30°C  
The temperature fluctuation during the analysis should be ± 2°C

**1. Dimensions Of System Main Units (Unit: cm)**

TURBOCHEM NEO W 625mm \* D425mm \* H 460mm Weight >36kg  
DPR Width700 x Depth 700 x Height 1430

**ANALYSER PC QUALIFICATION**

POWER SUPPLY : 230/50 Hz AS PER REQUIREMENTS  
UPS : AVAILABLE  
CURRENT : AS PER REQUIREMENTS  
COM PORTS AVAILABLE : YES  
ONLINE POSSIBLE : YES  
PROCESSOR SPEED : 1.46GHz  
RAM : 2 GB  
STORAGE CAPACITY : 500 Gb  
MONITOR : 15"  
PROCESSOR : INTEL  
OPERATING SYSTEM : WINDOWS 10 PRO  
SOFTWARE CD : AVAILABLE  
PRINTER PORT : AVAILABLE

VERIFIED BY: MR.MAGESHWARAN

REVIEWED BY:

(MANJERI CLINIAL LABORATORY & IDEAL X-RAYS)

For CPC DIAGNOSTICS PVT LTD.,

Authorised Signatory.



SIGNATURE:

SIGNATURE:



**PERFORMANCE QUALIFICATION**

*Photometer stability 30000- 60000– All cuvettes gain at all wave length should be within 30000-60000*  
**PASSED**

**PRECISION CHECK**

*This module is highlighting the reproducibility and pipetting accuracy of the system. Measuring criteria*

1. One end point chemistry
2. One kinetic chemistry
3. Large sample chemistry
4. Small sample chemistry
5. R1 only
6. R1 + R2

*BY DOING PRECISION CHECK WITH GLUCOSE, ALT, CREATININE ABOVE REQUIREMENT WILL BE COMPLETED.*

**DETAILS OF REAGENTS, CALIBRATORS AND CONTROLS**


REAGENTS : I CHEME  
CALIBRATOR : RANDOX Calibrator (LOT NO 757U3)  
CONTROL : BIORAD Level 1-

*HERE BY I'm VERIFYING THAT THE CONTROL RESULT OF THE EXECUTED PARAMETERS ARE WITHIN THE SD RANGE AND CV RANGE.*

VERIFIED BY: MR.MAGESHWARAN

REVIEWED BY:  
(MANJERI CLINICAL LABORATORY & IDEAL X-RAYS)

For CPC DIAGNOSTICS PVT LTD.,

  
Authorised Signatory.



SIGNATURE:

  
SIGNATURE:

**OPERATIONAL QUALIFICATION**

**ANALYSER OPERATIONAL CHECK POINTS**

**REMARK**

***Horizondal Alignements***

- |   |    |
|---|----|
| <input type="checkbox"/> Probe            | ok |
| <input type="checkbox"/> Cleaning Postion | ok |
| <input type="checkbox"/> Reaction Cuvette | ok |
| <input type="checkbox"/> Sample           | ok |
| <input type="checkbox"/> Reagent OUT      | ok |
| <input type="checkbox"/> Reagent Inner    | ok |
| <input type="checkbox"/> Wash needle      | ok |
| <input type="checkbox"/> Cleaning Postion | ok |
| <input type="checkbox"/> Reaction Cuvette | ok |

***Vertilacl Alignements***

- |   |    |
|---|----|
| <input type="checkbox"/> Probe            | OK |
| <input type="checkbox"/> Cleaning Postion | OK |
| <input type="checkbox"/> Reaction Cuvette | OK |
| <input type="checkbox"/> Sample           | OK |
| <input type="checkbox"/> Reagent OUT      | OK |
| <input type="checkbox"/> Reagent Inner    | OK |
| <input type="checkbox"/> Wash needle      | OK |
| <input type="checkbox"/> Cleaning Postion | OK |
| <input type="checkbox"/> Reaction Cuvette | OK |

***Functional checks***

- |   |      |
|---|------|
| <input type="checkbox"/> Sample/Reagent Pump    | OK   |
| <input type="checkbox"/> Air OUT                | OK   |
| <input type="checkbox"/> mixer motor            | OK   |
| <input type="checkbox"/> Liquid Level detection | OK   |
| <input type="checkbox"/> Leak check             | OK   |
| <input type="checkbox"/> Reaction Temperature   | OK   |
| <input type="checkbox"/> LAMP CONDITION         | GOOD |

**VERIFIED BY:MR.MAGESHWARAN**

**REVIEWED BY:**

For CPC DIAGNOSTICS PVT LTD.,

*B. M. J.*  
Authorised Signatory.



( MANJERI CLINIAL LABORATORY & IDEAL X-RAYS)

**SIGNATURE:**

*[Signature]*  
**SIGNATURE:**

**CORPORATE OFFICE**

No.70/6,Old No.108/6,4<sup>th</sup> floor,Westminister,Dr.Radhakrishnan Salai,Mylapore,Chennai-600004.  
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