



Dt: 12-04-2023

Calibration Certificate

This is to certify that the Fully Automatic Biochemistry Analyzer Erba EM200
Sr. No.- 2002670 Installed at

Dr. Garg's Diagnostics
Shakti Nagar
New Delhi-110007

Has been fully calibrated and QC have been run and found to be in range.
The calibration data is enclosed.

Calibration Date :12-04-2023

Next Calibration Date :11-04-2024

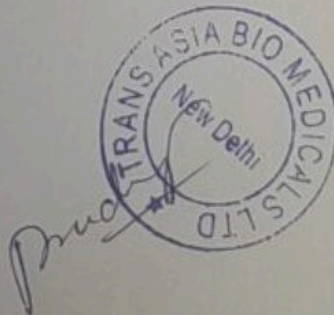
For Transasia Bio Medicals Ltd
New Delhi

Pradeep Kumar Sah
Sr. Service Engineer



Calibration Data

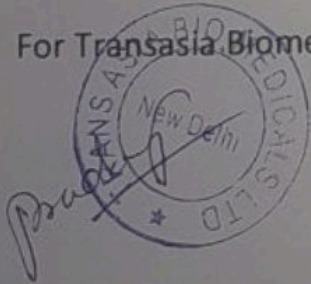
Diffraction Grating Data:				
Sr. No.	Filter	Gain Range	Measured Value	Ok Yes/No
	340	350-900	675	OK
	405	350-900	622	OK
	505	350-900	620	OK
	546	350-900	632	OK
	578	350-900	657	OK
	600	350-900	678	OK
	660	350-900	639	OK
	700	350-900	569	OK
Reagent Tray Temperature:				
		Range	Measured Value	Ok Yes/No
		4 -12 ° C	10°C	OK
Reaction Cuvette Tray Temperature:				
		Range	Measured Value	Ok Yes/No
		36.9 -37.1 °C	37.0	OK
Water Pressure:				
		Range	Measured Value	Ok Yes/No
		0.9 – 1.1 bar	1.0 bar	OK
Lamp Voltage:				
		Range	Measured Value	Ok Yes/No
		11.9 – 12.1 v	12.0 v	OK
Cuvette Blank:				
		Range	Measured Value	Ok Yes/No
		0.01 – 0.10	All in Range	OK



Calibration Data

Sample Syringe :				
		Dispensed	Measured Value	Ok Yes/No
Dispense Volume	2 μ l	2 μ l	2 μ l	Ok
Dispense Volume	70 μ l	70 μ l	70 μ l	Ok
Reagent Syringe :				
		Dispensed	Measured Value	Ok Yes/No
Dispense Volume	50 μ l	60 μ l	60 μ l	Ok
Dispense Volume	300 μ l	300 μ l	300 μ l	Ok

For Transasia Biomedicals Ltd

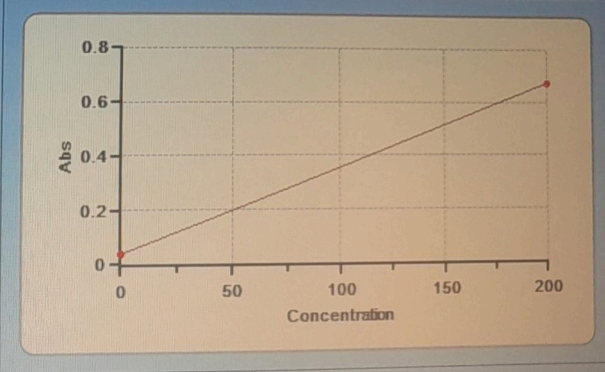


Pradeep Kumar Sah
Sr. Service Engineer

Schedule QC / Calibration **Calibration** QC Data Twin Plot QC Graph

Test : **GLU** Revision : <A-200-GLU-1 20.08.2013> Curve Type : **Linear**
Last Calibration Date : **02-Mar-2024 11:10:26** Calibration Expiry Limit : **0** Days Acceptable Limit (%) : **15**

Pos	Consumable	LotNo.	Conc	Abs	Factor
	BLANK	0	0.000	0.0394	0.0000
I-2	MULTICAL	23090...	200.000	0.6732	315.5818



Calibration Date : **02-Mar-2024 11:10:26**
R1 Lot No : **B042337-316**
Set Latest Calibration
Copy Calibration

Prev **Next**

Current Calibration

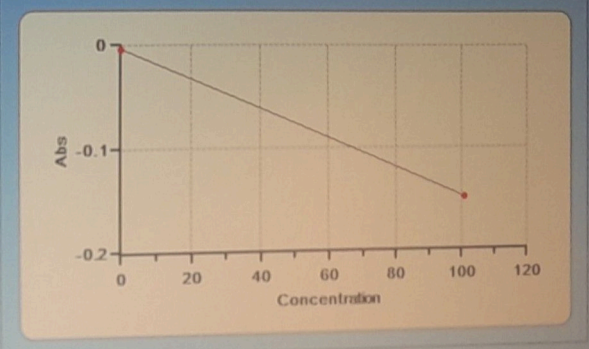
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- Test Parameter(F3)
- Profiles / Calc(F4)
- QC/Calibration(F5)
- Consumables(F6)
- Status Monitor(F7)**
- Search(F8)
- Reports(F9)
- Master
- Utility(F11)
- Service Check
- Maintenance(F12)
- Settings

- ⊕ Patient Entry(F2)
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- ⊕ Consumables(F6)
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- ⊕ Maintenance(F12)
- ⊕ Settings
- ⊕ Hibernate
- ⊕ Shut Down

Test : UREA Revision : <A-200-UREA-2 01.03.2016> Curve Type : Linear

Last Calibration Date : 29-Jan-2024 12:12:58 Calibration Expiry Limit : 0 Days Acceptable Limit (%) : 15

Pos	Consumable	LotNo.	Conc	Delta Abs/Min	Factor
BLANK	0		0.000	-0.0036	0.0000
MULTICAL	23090...		101.000	-0.1492	-693.4432



Calibration Date : 23-Jan-2024 11:39:23

R1 Lot No : S042301-314 [Set Latest Calibration](#)

R2 Lot No : S042301-314 [Copy Calibration](#)

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Current Calibration

Tests	ALBD	ALPU	AMY	BIDD	BIT	CA	CHOL	CRENZ	CRPD	FE	
<<	GGT	GLU	HA1cD	HDLC	LIP	PHOS	PRO	SGOTD	SGPTD	TRIG	>>
			HBA1M	PHOSM	PROM	GLUM	GGTM	HDLD			

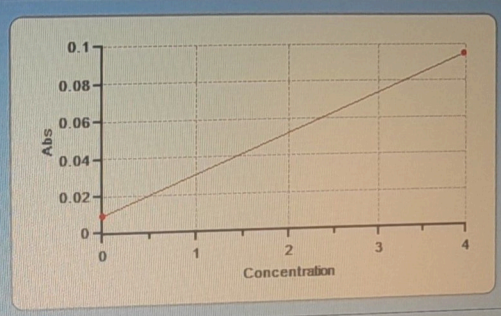
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- Test Parameter(F3)
- Profiles / Calc(F4)
- QC/Calibration(F5)
- Consumables(F6)
- Status Monitor(F7)
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- Settings
- Hibernate
- Shut Down

Schedule QC / Calibration Calibration QC Data Twin Plot QC Graph

Test : **CRENZ** Revision : <A-200-CRENZ-1 01.08.2014> Curve Type : **Linear**

Last Calibration Date : **08-Feb-2024 11:47:48** Calibration Expiry Limit : **0** Days Acceptable Limit (%) : **15**

Pos	Consumable	LotNo.	Conc	Abs	Factor
BLANK	0		0.000	0.0090	0.0000
MULTICAL	23090...		3.980	0.0950	46.2522



Calibration Date : **08-Feb-2024 11:47:48**

R1 Lot No : **T092319-341** **Set Latest Calibration**

R2 Lot No : **T092319-341** **Copy Calibration**

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Current Calibration

Tests

<<	ALBD	ALPU	AMY	BIDD	BIT	CA	CHOL	SGOTD	CRPD	FE	>>
	GGT	GLU	HA1cD	HDLC	LIP	PHOS	PRO	GGTM	SGPTD	TRIG	
	UA	UIBC	UREA	HBA1M	PHOSM	PROM	GLUM	HDL			

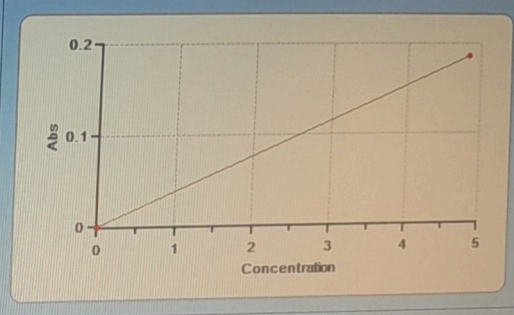
Successful Calibration CLEAR EDIT DELETE

Schedule QC / Calibration **Calibration** QC Data Twin Plot QC Graph

Test : **BIT** Revision : <A-200-BIT-2 26.09.2013> Curve Type : **Linear**

Last Calibration Date : **08-Feb-2024 12:00:45** Calibration Expiry Limit : **0** Days Acceptable Limit (%) : **15**

Pos	Consumable	LotNo.	Conc	Abs	Factor
	BLANK	0	0.000	0.0003	0.0000
	MULTICAL	23090...	4.830	0.1855	26.0729



Calibration Date : **08-Feb-2024 12:00:45**

R1 Lot No : **S062337-324** **Set Latest Calibration**

R2 Lot No : **S062337-324** **Copy Calibration**

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Current Calibration

- Patient Entry(F2)
- Test Parameter(F3)
- Profiles / Calc(F4)
- QC/Calibration(F5)
- Consumables(F6)
- Status Monitor(F7)
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- Maintenance(F12)
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- Hibernate
- Shut Down

Tests

<<	ALBD	ALPU	AMY	BIDD	BIT	CA	CHOL	CRENZ	CRPD	FE	>>
	GGT	GLU	HA1cD	HDLC	LIP	PHOS	PRO	SGOTD	SGPTD	TRIG	
	UA	UIBC	UREA	HBA1M	PHOSM	PROM	GLUM	GGTM	HDL		

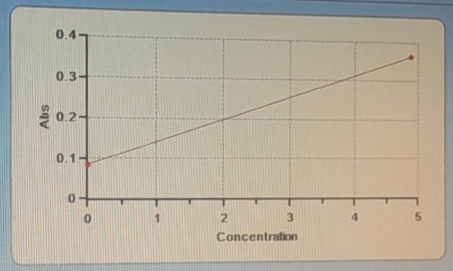
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- Test Parameter(F3)
- Profiles / Calc(F4)
- QC/Calibration(F5)
- Consumables(F6)
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- Settings
- Hibernate
- Shut Down

Schedule QC / Calibration Calibration QC Data Twin Plot QC Graph

Test : PRO Revision : <A-200-PRO-2 26.09.2013>

Last Calibration Date : 02-Apr-2024 12:49:45 Calibration Expiry Limit : 0 Days Curve Type : Linear Acceptable Limit (%) : 15

Pos	Consumable	LotNo.	Conc	Abs	Factor
	BLANK	0	0.000	0.0853	0.0000
	MULTICAL	23090...	4.880	0.3628	17.5856



Calibration Date : 02-Apr-2024 12:49:45
R1 Lot No : S062396-326,S122330
[Set Latest Calibration]
[Copy Calibration]

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Current Calibration

Tests

<<	ALBD	ALPU	AMY	BIDD	BIT	CA	CHOL	CRENZ	CRPD	FE	>>
	GGT	GLU	HA1cD	HDLC	LIP	PHOS	GLUM	SGTD	SGPTD	TRIG	
	UA	UIBC	UREA	HBA1M	PHOSM	PROM	GLUM	GGTM	HOLD		

[EDIT] [DELETE]

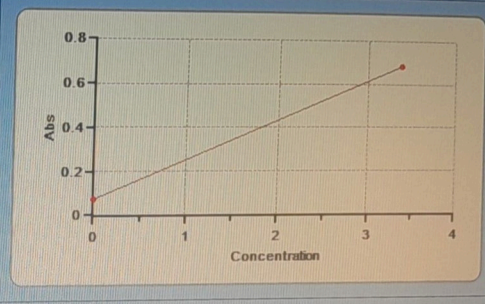
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- Test Parameter(F3)
- Profiles / Calc(F4)
- QC/Calibration(F5)
- Consumables(F6)
- Status Monitor(F7)
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- Maintenance(F12)
- Settings
- Hibernate
- Shut Down

Schedule QC / Calibration Calibration QC Data Twin Plot QC Graph

Test : **ALBD** Revision : <A-200-ALBD-1 07.11.2017> Curve Type : **Linear**

Last Calibration Date : **03-Feb-2024 11:43:49** Calibration Expiry Limit : **0** Days Acceptable Limit (%) : **15**

Pos	Consumable	LotNo.	Conc	Abs	Factor
	BLANK	0	0.000	0.0733	0.0000
	MULTICAL	23090...	3.370	0.6826	5.5309



Calibration Date : **03-Feb-2024 11:43:49**

R1 Lot No : **B042328-315**

Set Latest Calibration

Copy Calibration

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Current Calibration

Tests

<<	GGT	ALPU	AMY	BIDD	BIT	CA	CHOL	CRENZ	CRPD	FE	>>
	GLU	HA1cD	HDLC	LIP	PHOS	PRO	SGOTD	SGPTD	TRIG		
	UA	UIBC	UREA	HBA1M	PHOSM	PROM	GLUM	GGTM	HDL		

Indication : **Successful Calibration**

PRINT **SAVE** **CLEAR** **EDIT** **DELETE**

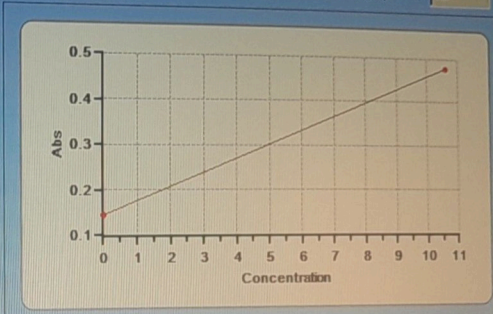
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- Test Parameter(F3)
- Profiles / Calc(F4)
- QC/Calibration(F5)
- Consumables(F6)
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- Search(F8)
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- Settings
- Hibernate
- Shut Down

Schedule QC / Calibration Calibration QC Data Twin Plot QC Graph

Test : CA Revision : <A-200-CA-1 20.08.2013>

Last Calibration Date : 29-Feb-2024 11:36:47 Calibration Expiry Limit : 0 Days Curve Type : Linear Acceptable Limit (%) : 15

Pos	Consumable	LotNo.	Conc	Abs	Factor
BLANK	0		0.000	0.1452	0.0000
MULTICAL	23090...		10.600	0.4785	31.8080



Calibration Date : 29-Feb-2024 11:36:47
 R1 Lot No : S102367-344
 [Set Latest Calibration]
 [Copy Calibration]

[Prev] [Next]

Current Calibration

Tests

<<	ALBD	ALPU	AMY	BIDD	BIT	CA	CHOL	CRENZ	CRPD	FE	>>
	GGT	GLU	HA1cD	HDLC	LIP	PHOS	PRO	SGOTD	SGPTD	TRIG	
	UA	UIBC	UREA	HBA1M	PHOSM	PROM	GLUM	GGTM	HDLD		

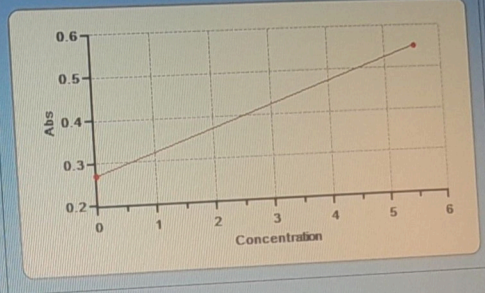
Indication : Successful Calibration [PRINT] [SAVE] [CLEAR] [EDIT] [DELETE]

- Patient Entry(F2)
- Test Parameter(F3)
- Profiles / Calc(F4)
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- Consumables(F6)
- Status Monitor(F7)
- Search(F8)
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- Settings
- Hibernate
- Shut Down

Test : PHOS Revision : <A-200-PHOS-1 20.08.2013> Curve Type : Linear

Last Calibration Date : 11-Jan-2024 12:06:32 Calibration Expiry Limit : 0 Days Acceptable Limit (%) : 15

Pos	Consumable	LotNo.	Conc	Abs	Factor
BLANK	0		0.000	0.2699	0.0000
MULTICAL	23090...		5.520	0.5509	19.6441



Calibration Date : 11-Jan-2024 12:06:32
 R1 Lot No : S052329-319

Set Latest Calibration
 Copy Calibration

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Current Calibration

Tests	<<	ALBD	ALPU	AMY	BIDD	BIT	CA	CHOL	CRENZ	CRPD	FE	
		GGT	GLU	HA1cD	HDLC	LIP	PHOS	PRO	SGOTD	SGPTD	TRIG	>>
		UA	UIBC	UREA	HBA1M	PHOSM	PROM	GLUM	GGTM	HDLD		

Successful Calibration PRINT SAVE CLEAR EDIT DELETE

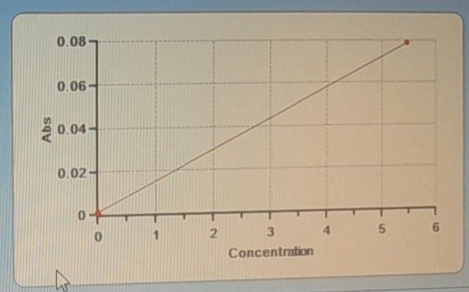
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- Profiles / Calc(F4)
- QC/Calibration(F5)
- Consumables(F6)
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- Settings
- Hibernate
- Shut Down

Schedule QC / Calibration **Calibration** QC Data Twin Plot QC Graph

Test : **UA** Revision : <A-200-UA-1 01.06.2015> Curve Type : **Linear**

Last Calibration Date : **02-Apr-2024 12:47:56** Calibration Expiry Limit : **0** Days Acceptable Limit (%) : **15**

Pos	Consumable	LotNo.	Conc	Abs	Factor
	BLANK	0	0.000	0.0012	0.0000
	MULTICAL	23090...	5.460	0.0789	70.2703



Calibration Date : **02-Apr-2024 12:47:56**

R1 Lot No : **S082323-332** **Set Latest Calibration**

R2 Lot No : **S082323-332** **Copy Calibration**

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Current Calibration

Tests

<<	ALBD	ALPU	AMY	BIDD	BIT	CA	CHOL	CRENZ	CRPD	FE	>>
	GGT	GLU	HA1cD	HDLC	LIP	PHOS	PRO	SGOTD	SGPTD	TRIG	
	UIBC	UREA	HBA1M	PHOSM	PROM	GLUM	GGTM	HDLD			

Indication : **Successful Calibration** **PRINT** **SAVE** **CLEAR** **EDIT** **DELETE**

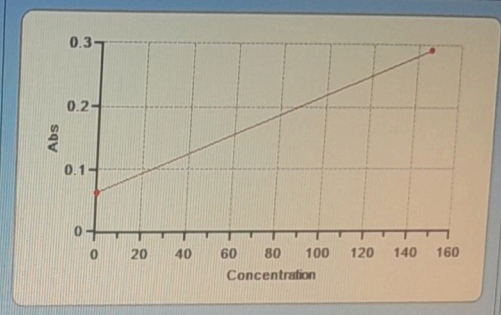
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Schedule QC / Calibration **Calibration** QC Data Twin Plot QC Graph

Test : **CHOL** Revision : <A-200-CHOL-1 20.00.2013> Curve Type : **Linear**

Last Calibration Date : 02-Mar-2024 11:12:50 Calibration Expiry Limit : 0 Days Acceptable Limit (%) : 15

Pos	Consumable	LotNo.	Conc	Abs	Factor
	BLANK	0	0.000	0.0630	0.0000
I-2	MULTICAL	23090...	146.000	0.2906	641.3354



Calibration Date : 02-Mar-2024 11:12:50

R1 Lot No : S082362-333

Buttons: Set Latest Calibration, Copy Calibration

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Current Calibration

Tests

<<	ALBD	ALPU	AMY	BIDD	BIT	CA	CHOL	CRENZ	CRPD	FE	>>
	GGT	GLU	HA1cD	HDLC	LIP	PHOS	PRO	SGOTD	SGPTD	TRIG	
	UA	UIBC	UREA	HBA1M	PHOSM	PROM	GLUM	GGTM	HDL		

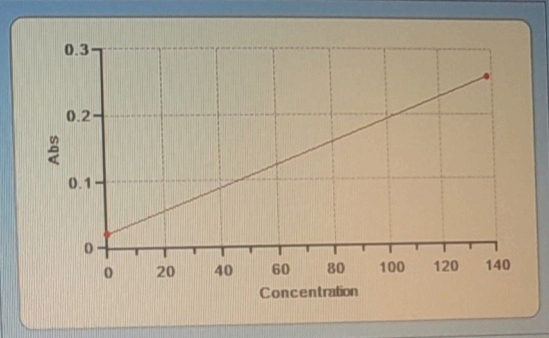
Indication : Successful Calibration

Buttons: PRINT, SAVE, CLEAR, EDIT, DELETE

Schedule QC / Calibration **Calibration** QC Data Twin Plot QC Graph

Test : **TRIG** Revision : <A-200-TRIG-1 20.08.2013> Curve Type : Linear
 Last Calibration Date : 29-Mar-2024 11:53:28 Calibration Expiry Limit : 0 Days Acceptable Limit (%) : 15

Pos	Consumable	LotNo.	Conc	Abs	Factor
	BLANK	0	0.000	0.0202	0.0000
	MULTICAL	23090...	138.000	0.2582	579.8319



Calibration Date : 29-Mar-2024 11:53:28
 R1 Lot No : S082331-333
 R2 Lot No : S082331-333

Buttons: Set Latest Calibration, Copy Calibration

Prev Next

Current Calibration

Tests

<<	ALBD	ALPU	AMY	BIDD	BIT	CA	CHOL	CRENZ	CRPD	FE	>>
	GGT	GLU	HA1cD	HDLC	LIP	PHOS	PRO	SGOTD	SGPTD		
	UA	UIBC	UREA	HBA1M	PHOSM	PROM	GLUM	GGTM	HDLD		

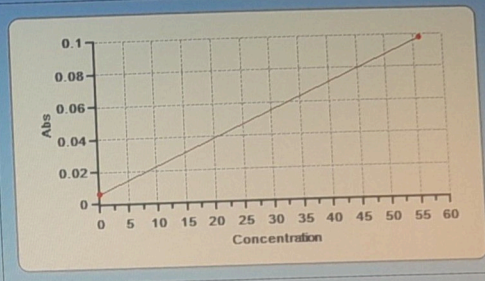
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- Test Parameter(F3)
- Profiles / Calc(F4)
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- Consumables(F6)
- Status Monitor(F7)
- Search(F8)
- Reports(F9)
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- Settings
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Test : HDLC Revision : <A-200-HDLC-1 20 08 2013> Curve Type : Linear

Last Calibration Date : 03-Apr-2024 12:23:36 Calibration Expiry Limit : 0 Days Acceptable Limit (%) : 15

Pos	Consumable	LotNo.	Conc	Abs	Factor
	BLANK	0	0.000	0.0060	0.0000
	HDL LDL ...	T062308	56.000	0.0979	609.3580



Calibration Date : 03-Apr-2024 12:23:36

R1 Lot No : T062308-327,T092327

R2 Lot No : T062308-327,T092327

Buttons: Set Latest Calibration, Copy Calibration

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Current Calibration

Tests

<<	ALBD	ALPU	AMY	BIDD	BIT	CA	CHOL	CRENZ	CRPD	FE	
	GGT	GLU	HA1cD	LDL-C	LIP	PHOS	PRO	SGOTD	SGPTD	TRIG	
	UA	UIBC	UREA	HBA1M	PHOSM	PROM	GLUM	GGTM	HDL		

Click to view - Next Page

Indication : Successful Calibration

Navigation buttons: PRINT, SAVE, CLEAR, EDIT, DELETE

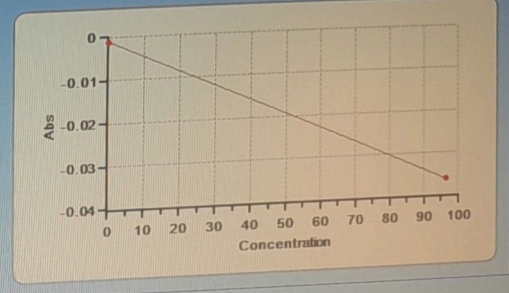
Schedule QC / Calibration **Calibration** QC Data Twin Plot QC Graph

Test : **SGOTD** Revision : <A-200-SGOTD-3 21.06.2017>

Curve Type : **Linear**

Last Calibration Date : **24-Mar-2024 11:52:25** Calibration Expiry Limit : **0** Days Acceptable Limit (%) : **15**

Pos	Consumable	LotNo.	Conc	Delta Abs/Min	Factor
BLANK	0		0.000	-0.0010	0.0000
MULTICAL	23090...		96.400	-0.0361	-2746.4387



Calibration Date : **24-Mar-2024 11:52:25**

R1 Lot No : **S042330-315,S062307**

R2 Lot No : **S042330-315,S062307**

Set Latest Calibration

Copy Calibration

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Current Calibration

Tests

ALBD	ALPU	AMY	BIDD	BIT	CA	CHOL	CRENZ	CRPD	FE
GGT	GLU	HA1cD	HDLC	LIP	PHOS	PRO	SGPTD	TRIG	>>
UA	UIBC	UREA	HBA1M	PHOSM	PROM	GLUM	GGTM	HDL	

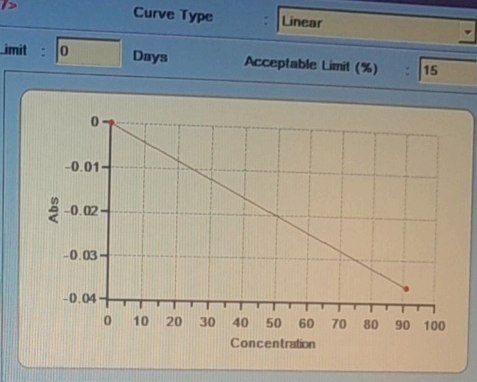
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- QC/Calibration(F5)
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- Shut Down

- Patient Entry(F2)
- Test Parameter(F3)
- Profiles / Calc(F4)
- QC/Calibration(F5)
- Consumables(F6)
- Status Monitor(F7)**
- Search(F8)
- Reports(F9)
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- Utility(F11)
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- Maintenance(F12)
- Settings
- Hibernate
- Shut Down

Test : **SGPTD** Revision : <A-200-SGPTD-3 21.06.2017>

Last Calibration Date : 24-Feb-2024 11:39:31 Calibration Expiry Limit : 0 Days Acceptable Limit (%) : 15

Pos	Consumable	LotNo.	Conc	Delta Abs/Min	Factor
BLANK	0		0.000	-0.0001	0.0000
MULTICAL	23090...		91.000	-0.0364	-2506.8870



Calibration Date : 10-Feb-2024 11:21:26
 R1 Lot No : S102328-342
 R2 Lot No : S102328-342

Buttons: Set Latest Calibration, Copy Calibration

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Current Calibration

Tests

<<	ALBD	ALPU	AMY	BIDD	BIT	CA	CHOL	CRENZ	CRPD	FE	>>
	GGT	GLU	HA1cD	HDLC	LIP	PHOS	PRO	SGOTD	SGPTD	TRIG	
	UA	UIBC	UREA	HBA1M	PHOSM	PROM	GLUM	GGTM	HDLD		

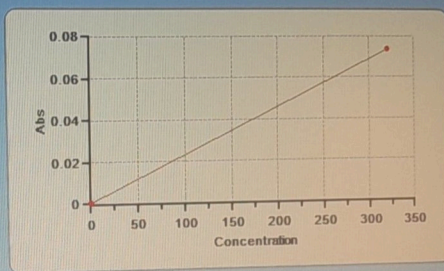
Indication : Successful Calibration

Buttons: PRINT, SAVE, CLEAR, EDIT, DELETE

Test : ALPU Revision : <A-200-ALPU-3 01.03.2016> Curve Type : Linear

Last Calibration Date : 29-Feb-2024 11:31:40 Calibration Expiry Limit : 0 Days Acceptable Limit (%) : 15

Pos	Consumable	LotNo.	Conc	Delta Abs/Min	Factor
	BLANK	0	0.000	0.0004	0.0000
	MULTICAL	23090...	320.000	0.0736	4374.5728



Calibration Date : 29-Feb-2024 11:31:40

R1 Lot No : B012440-402

R2 Lot No : B012440-402

Set Latest Calibration

Copy Calibration

Prev Next

Current Calibration

Tests

<<	ALBD	ALP	AMY	BIDD	BIT	CA	CHOL	CRENZ	CRPD	FE	>>
	GGT	GLU	HA1cD	HDLC	LIP	PHOS	PRO	SGOTD	SGPTD	TRIG	
	UA	UIBC	UREA	HBA1M	PHOSM	PROM	GLUM	GGTM	HDLD		

Indication : Successful Calibration

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- Test Parameter(F3)
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- Reports(F9)
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- Utility(F11)
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