



Dt: 12-04-2024

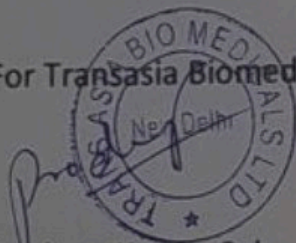
## Calibration Certificate

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 Done Date :12-04-2024  
Calibration Due Date :11-04-2025

For Transasia Bio Medicals Ltd



Pradeep Kumar Sah  
Sr. Service Engineer

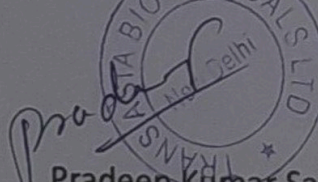
### Calibration Data

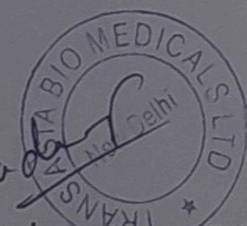
<b>Diffraction Grating Data:</b>				
Sr. No.	Filter	Gain Range	Measured Value	Ok Yes/No
	340	350-900	670	OK
	405	350-900	602	OK
	505	350-900	630	OK
	546	350-900	642	OK
	578	350-900	617	OK
	600	350-900	678	OK
	660	350-900	609	OK
	700	350-900	579	OK
<b>Reagent Tray Temperature:</b>				
		Range	Measured Value	Ok Yes/No
		4 -12 ° C	10°C	OK
<b>Reaction Cuvette Tray Temperature:</b>				
		Range	Measured Value	Ok Yes/No
		36.9 -37.1 °C	37.0	OK
<b>Water Pressure:</b>				
		Range	Measured Value	Ok Yes/No
		0.9 – 1.1 bar	1.0 bar	OK
<b>Lamp Voltage:</b>				
		Range	Measured Value	Ok Yes/No
		11.9 – 12.1 v	12.0 v	OK
<b>Cuvette Blank:</b>				
		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 $\mu$ l	2 $\mu$ l	2 $\mu$ l	Ok
Dispense Volume	70 $\mu$ l	70 $\mu$ l	70 $\mu$ l	Ok
Reagent Syringe :				
		Dispensed	Measured Value	Ok Yes/No
Dispense Volume	50 $\mu$ l	60 $\mu$ l	60 $\mu$ l	Ok
Dispense Volume	300 $\mu$ l	300 $\mu$ l	300 $\mu$ l	Ok

For Transasia Biomedicals Ltd

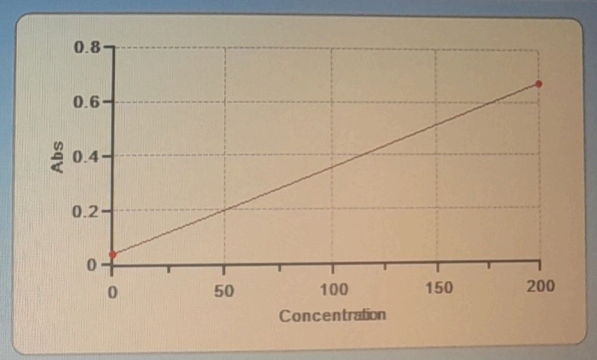
  
Pradeep Kumar Sah  
Sr. Service Engineer



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**

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**Current Calibration**

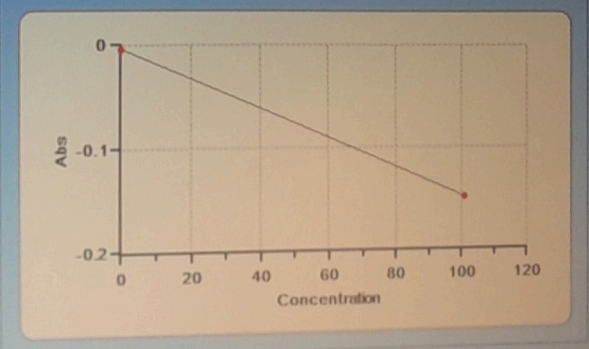
- Patient Entry(F2)
- Test Parameter(F3)
- Profiles / Calc(F4)
- QC/Calibration(F5)
- Consumables(F6)
- Status Monitor(F7)**
- Search(F8)
- Reports(F9)
- Master
- Utility(F11)
- Service Check
- Maintenance(F12)
- Settings

- ⊕ Patient Entry(F2)
- ⊕ Test Parameter(F3)
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- ⊕ QC/Calibration(F5)
- ⊕ Consumables(F6)
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- ⊕ Service Check
- ⊕ 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			

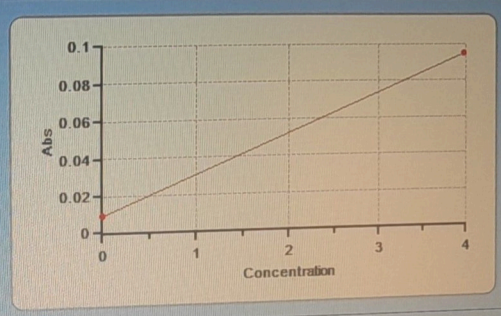
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- Test Parameter(F3)
- Profiles / Calc(F4)
- QC/Calibration(F5)
- Consumables(F6)
- Status Monitor(F7)
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- Reports(F9)
- Master
- Utility(F11)
- Service Check
- Maintenance(F12)
- Settings
- Hibernate
- 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	SGPTD	TRIG	>>
	GGT	GLU	HA1cD	HDLC	LIP	PHOS	PRO	GGTM	HDL		
	UA	UIBC	UREA	HBA1M	PHOSM	PROM	GLUM				

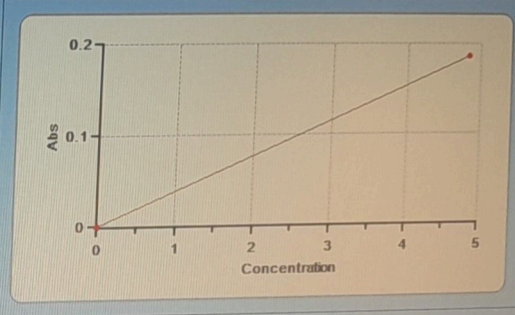
Successful Calibration    CLEAR    EDIT    DELETE

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)**
- Search(F8)
- Reports(F9)
- Master
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- Service Check
- Maintenance(F12)
- Settings
- Hibernate
- Shut Down

Tests

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

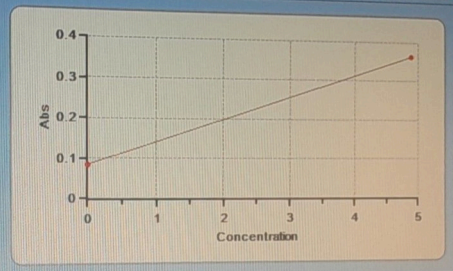
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- Test Parameter(F3)
- Profiles / Calc(F4)
- QC/Calibration(F5)
- Consumables(F6)
- Status Monitor(F7)
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- Hibernate
- Shut Down

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	SGOTD	SGPTD	TRIG	
	UA	UIBC	UREA	HBA1M	PHOSM	PROM		GGTM	HOLD		

[EDIT] [DELETE]

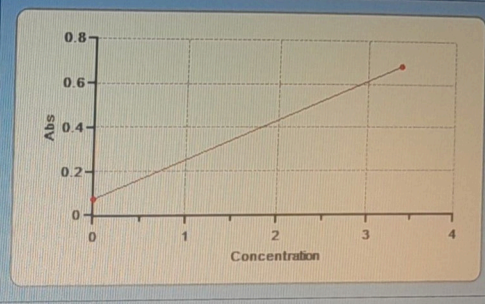


- Patient Entry(F2)
- Test Parameter(F3)
- Profiles / Calc(F4)
- QC/Calibration(F5)
- Consumables(F6)
- Status Monitor(F7)
- Search(F8)
- Reports(F9)
- Master
- Utility(F11)
- Service Check
- Maintenance(F12)
- Settings
- Hibernate
- Shut Down

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

<<	ALBU	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**

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

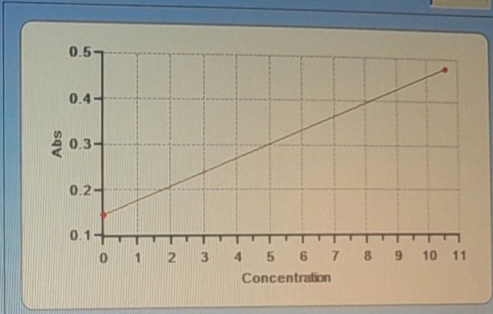
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- Test Parameter(F3)
- Profiles / Calc(F4)
- QC/Calibration(F5)
- Consumables(F6)
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- Master
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- Service Check
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- 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  
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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		

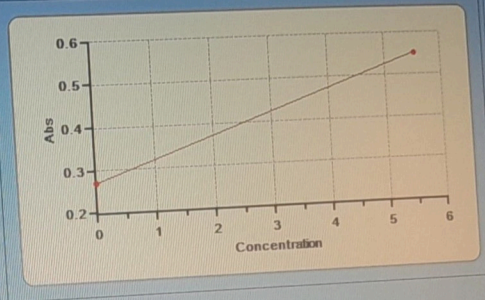
Indication : Successful Calibration    PRINT    SAVE    CLEAR    EDIT    DELETE

- Patient Entry(F2)
- 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
- 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		

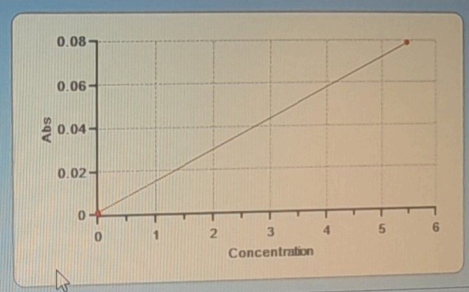
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- Profiles / Calc(F4)
- QC/Calibration(F5)
- Consumables(F6)
- Status Monitor(F7)
- Search(F8)
- Reports(F9)
- Master
- Utility(F11)
- Service Check
- Maintenance(F12)
- Settings
- Hibernate
- Shut Down

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**

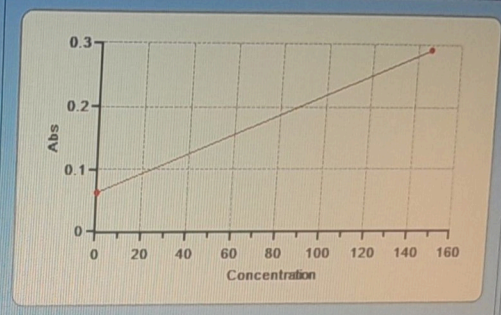
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- Hibernate
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Schedule QC / Calibration    **Calibration**    QC Data    Twin Plot    QC Graph

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

Set Latest Calibration

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**Current Calibration**

Tests

<<	ALBD	ALPU	AMY	BIDD	BIT	CA	<b>CHOL</b>	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

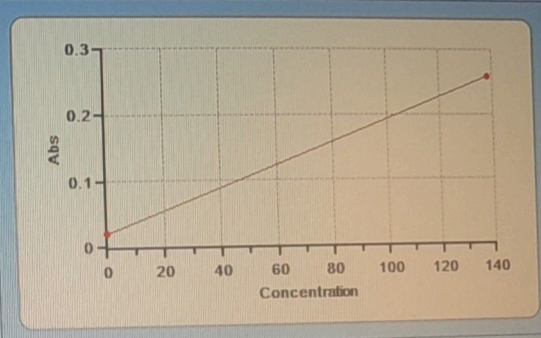
PRINT    SAVE    CLEAR    EDIT    DELETE

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**

**Set Latest Calibration**

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- Patient Entry(F2)
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Tests

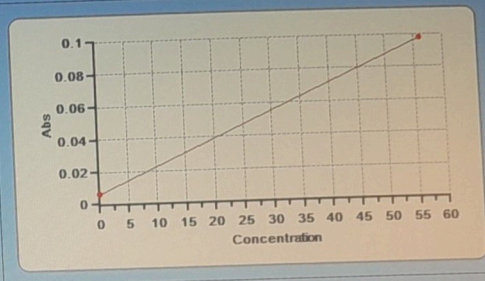
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	GGT	GLU	HA1cD	HDLC	LIP	PHOS	PRO	SGOTD	SGPTD		
	UA	UIBC	UREA	HBA1M	PHOSM	PROM	GLUM	GGTM	HDLD		

Schedule QC / Calibration    Calibration    QC Data    Twin Plot    QC Graph

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    [Set Latest Calibration](#)

R2 Lot No : T062308-327,T092327    [Copy Calibration](#)

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Current Calibration

Tests

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

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Indication : Successful Calibration

[PRINT](#)    [SAVE](#)    [CLEAR](#)    [EDIT](#)    [DELETE](#)

- Patient Entry(F2)
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- QC/Calibration(F5)
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- Status Monitor(F7)
- Search(F8)
- Reports(F9)
- Master
- Utility(F11)
- Service Check
- Maintenance(F12)
- Settings
- Hibernate
- Shut Down
- Help (F1)

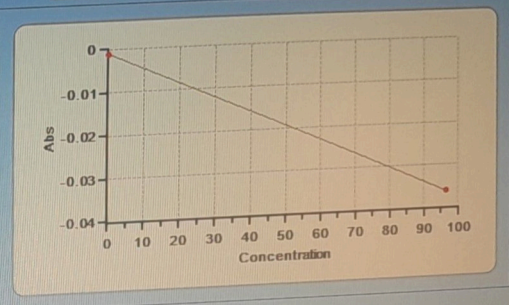
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- QC/Calibration(F5)
- Consumables(F6)
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- Utility(F11)
- Service Check
- Maintenance(F12)
- Settings
- Hibernate
- Shut Down

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		



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

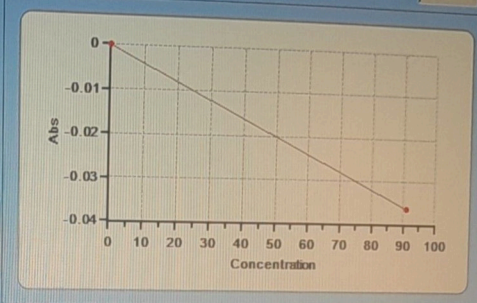
Schedule QC / Calibration    Calibration    QC Data    Twin Plot    QC Graph

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

Last Calibration Date : 24-Feb-2024 11:39:31

Curve Type : Linear  
 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

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		

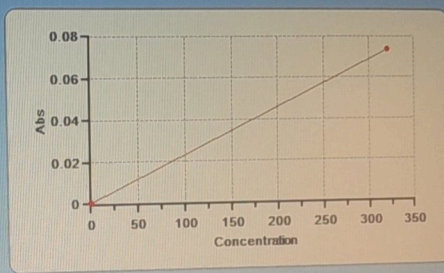
Indication : Successful Calibration

Buttons: PRINT, SAVE, CLEAR, EDIT, DELETE

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

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	ALU	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)
- QC/Calibration(F5)
- Consumables(F6)
- Status Monitor(F7)
- Search(F8)
- Reports(F9)
- Master
- Utility(F11)
- Service Check
- Maintenance(F12)
- Settings
- Hibernate
- Shut Down