

CALIBRATION CERTIFICATE

Name of the customer	INDIGLOBAL LABS PVT LTD PLOT NO 7,CF AREA,PHASE-II, IDA,CHERALAPALLY,HYDERABAD-500051 TELANGANA
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Make:	HORIBA MEDICAL FRANCE
Product Name:	ABX PENTRA C 200
S.No.	1911C2- 0209-D

This is to certify that the ABX PENTRA C200 Fully automated clinical Biochemistry analyzer has been duly inspected and calibrated on 11-06-2022. The instrument is working satisfactorily and the next calibration due on 10-06-2023.

S.No.	Test Parameters	Measured	Remarks			
1	IRU -1 Temp. (37.0 +/- 0.5 Deg C.)	37.09	Pass			
2	IRU -2 Temp. (37.0 +/- 0.5 Deg C.)	36.84	Pass			
3	SRCU Temp. (8.0-15.0 Deg C.)	8.106	Pass			
4	Software Version	1002	Pass			
5	Precision test (CV<=2%) Appendix 1	0.88	Pass			
6	Spectro gains (2to10) Appendix 2					
	Wavelength					
	a)340nm	9.010	Pass	e)570nm	8.880	Pass
	b)405nm	9.170	Pass	f)600nm	8.960	Pass
	c)510nm	9.030	Pass	g)660nm	8.910	Pass
	d)546nm	9.030	Pass	h)700nm	8.890	Pass

For HORIBA INDIA PVT LTD


M SURENDRA REDDY
(ENGINEER-CUSTOMER SUPPORT)

Appendix -2



Note: Refer Page No 385 in the User manual, for the Spectro Gain

For HORIBA INDIA PVT. LTD.

M Surendra Reddy
11/06/22

M SURENDRA REDDY
(ENGINEER-CUSTOMER SUPPORT)

Appendix -1

PRECI TEST				
	SID	Result	Target	Range
	1	556.65	600	500-700
	2	556.5		
	3	560.01		
	4	560.65		
	5	559.25		
	6	556.24		
	7	556.77		
	8	554.97		
	9	552.2		
	10	560.59		
	11	552.61		
	12	558.07		
	13	550.18		
	14	543.51		
	15	548.83		
	Mean	555.14		
	SD	4.87		
	CV%	0.88		
	CV Limit	<2.0		

Note: Refer Page No:349 in the PC 200 User Manual, for the Limits and CV %

For HORIBA INDIA PVT LTD


M SURENDRA REDDY
(ENGINEER-CUSTOMER SUPPORT)

SID:94000301011 Precitest 556.65 Abs 9999	ID:	Date:06/09/2022	Round No: 3
SID:94000301021 Precitest 556.50 Abs 9999	ID:	Date:06/09/2022	Round No: 3
SID:94000301031 Precitest 560.01 Abs 9999	ID:	Date:06/09/2022	Round No: 3
SID:94000301041 Precitest 560.65 Abs 9999	ID:	Date:06/09/2022	Round No: 3
SID:94000301051 Precitest 559.25 Abs 9999	ID:	Date:06/09/2022	Round No: 3
SID:94000301061 Precitest 556.24 Abs 9999	ID:	Date:06/09/2022	Round No: 3
SID:94000301081 Precitest 556.77 Abs 9999	ID:	Date:06/09/2022	Round No: 3
SID:94000301091 Precitest 554.97 Abs 9999	ID:	Date:06/09/2022	Round No: 3
SID:94000301101 Precitest 552.20 Abs 9999	ID:	Date:06/09/2022	Round No: 3
SID:94000301111 Precitest 560.59 Abs 9999	ID:	Date:06/09/2022	Round No: 3
SID:94000301121 Precitest 552.61 Abs 9999	ID:	Date:06/09/2022	Round No: 3
SID:94000301131 Precitest 558.07 Abs 9999	ID:	Date:06/09/2022	Round No: 3
SID:94000301141 Precitest 550.18 Abs 9999	ID:	Date:06/09/2022	Round No: 3
SID:94000301151 Precitest 543.51 Abs 9999	ID:	Date:06/09/2022	Round No: 3

Auth
09/06/22

SID:94000301161
Precitest
548.83
Abs 9999

ID:

Date:06/09/2022 Round No: 3

Handwritten:
09/08/22

Calibration

Date:06/09/2022 Round No: 2

AST	MCAL	U/l	7642	7642		
--S1--	--S2--	--S3--	--S4--	--S5--	--S6--	--S7--
0.0	112.0					
-9	-351					
-4	-368					

Linear

Delta ABS = ax + b

a = -31.500

b = -65.000

Amal
09/06/22

Calibration

Date:06/09/2022 Round No: 2

ALT	MCAL	U/1	7677	7677		
--S1--	--S2--	--S3--	--S4--	--S5--	--S6--	--S7--
0.0	97.5					
3	-315					
0	-295					

Linear
Delta ABS = ax + b

a = -31.446
b = 16.000

Handwritten signature
09/06/22

Calibration

Date:06/09/2022 Round No: 2

Calcium AS	MCAL	mg/dL	8035			
--S1--	--S2--	--S3--	--S4--	--S5--	--S6--	--S7--
0.00	11.87					
35	7616					
-23	7605					

Linear

Delta ABS = ax + b

a = 6406.571

b = 60.000

Handwritten signature
09/06/22

Calibration

Date:06/09/2022 Round No: 2

Urea	MCAL	mg/dL	7846	7846		
--S1--	--S2--	--S3--	--S4--	--S5--	--S6--	--S7--
0.0	92.0					
-9	-1824					
-15	-1836					

Linear

Delta ABS = ax + b

a = -197.576

b = -120.000

Quasi D
09/05/22

Calibration

Date:06/09/2022 Round No: 2

Uric Acid	MCAL	mg/dL	7943	7943		
--S1--	--S2--	--S3--	--S4--	--S5--	--S6--	--S7--
0.00	5.71					
32	1340					
50	1317					

Linear
Delta ABS = ax + b

a = 2254.816
b = 411.000

Handwritten signature
09/06/22

Calibration

Date:06/09/2022 Round No: 2

T.Bilirubin	MCAL	mg/dL	7768	7768		
--S1--	--S2--	--S3--	--S4--	--S5--	--S6--	--S7--
0.00	4.45					
38	488					
55	506					

Linear

 $\Delta \text{ABS} = ax + b$

a = 1013.258

b = 462.000

Handwritten signature
08/06/22

Calibration

Date:06/09/2022 Round No: 2

Albumin	MCAL	g/dL	8095			
--S1--	--S2--	--S3--	--S4--	--S5--	--S6--	--S7--
0.00	3.72					
-13	5160					
13	5136					

Linear

Delta ABS = ax + b

a = 13838.71

b = -1.000

Just
08/06/22

Calibration

Date:06/09/2022 Round No: 2

GGT		U/1	7656	7656		
--S1--	--S2--	--S3--	--S4--	--S5--	--S6--	--S7--
0.0	103.0					
13	371					
6	398					

Linear

 $\Delta \text{ABS} = ax + b$

a = 36.447

b = 92.000

Handwritten signature
08/08/22

Calibration

Date:06/09/2022 Round No: 2

D.Bilirubin	MCAL	mg/dL	7754	7754		
--S1--	--S2--	--S3--	--S4--	--S5--	--S6--	--S7--
0.00	3.02					
-40	1469					
7	1463					

Linear

 $\Delta \text{ABS} = ax + b$

a = 4908.609

b = -165.000

Handwritten signature
08/08/22

Calibration

Date:06/09/2022 Round No: 2

Glucose PAP	MCAL	mg/dl	8035			
--S1--	--S2--	--S3--	--S4--	--S5--	--S6--	--S7--
0.00	201.60					
68	2358					
20	2455					

Linear

$$\text{Delta ABS} = ax + b$$

$$a = 117.192$$

$$b = 440.000$$

Handwritten signature
07/08/22

Calibration

Date:06/09/2022 Round No: 2

Total Protein	MCAL	g/dl	7943			
--S1--	--S2--	--S3--	--S4--	--S5--	--S6--	--S7--
0.00	5.29					
-11	1279					
-15	1280					

Linear

 $\Delta \text{ABS} = ax + b$

a = 2442.155

b = -129.000

Handwritten signature
08/06/22

SID:97000001011 ID:N control Date:06/11/2022 Round No: 2
 AST 55.8 ALT 53.2 T.Bilirubin 1.24 D.Bilirubin 1.13
 U/l 7642 7642 U/l 7677 7677 mg/dL 7768 7768 mg/dL 7754 7754

Total Protein 4.89 GGT 56.5 Urea 37.94 Cholesterol 87.57
 g/dl 7943 U/l 7656 7656 mg/dL 7846 7846 mg/dL 8014

Triglycerides 117.83 Calcium AS 9.56 1:2S Glucose PAP 105.45 Albumin 3.2
 mg/dl 7760 mg/dL 8035 mg/dl 8035 g/dL 8095

SID:97000002011 ID:P control Date:06/11/2022 Round No: 2
 AST 178.3 ALT 144.4 T.Bilirubin 4.69 D.Bilirubin 2.60 1:2S
 U/l 7642 7642 U/l 7677 7677 mg/dL 7768 7768 mg/dL 7754 7754

Total Protein 8.02 Uric Acid 11.46 1:2S GGT 247.8 Urea 105.66
 g/dl 7943 mg/dL 7943 7943 U/l 7656 7656 mg/dL 7846 7846

Cholesterol 181.78 Triglycerides 209.21 Calcium AS 14.56 Glucose PAP 253.13
 mg/dL 8014 mg/dl 7760 mg/dL 8035 mg/dl 8035

Albumin 5.3 1:2S
 g/dL 8095

SID:97000001011 ID:N control Date:06/11/2022 Round No: 3
 Uric Acid 5.67
 mg/dL 7943 7943

SID:97000002011 ID:P control Date:06/11/2022 Round No: 3
 Uric Acid 10.84
 mg/dL 7943 7943

SID:97000001011 ID:N control Date:06/11/2022 Round No: 4
 Creatinine 1.42 1:2S
 mg/dl 8089 8089

SID:97000002011 ID:P control Date:06/11/2022 Round No: 4
 Creatinine 4.55 1:2S
 mg/dl 8089 8089

Amal D
11/06/22

SID:94000101011	ID:	Date:06/11/2022	Round No: 2
AST	Glucose PAP		
187.8 LIN	250.77 H		
U/l 7642 7642	mg/dl 8035		
SID:94000101021	ID:	Date:06/11/2022	Round No: 2
AST	Glucose PAP		
180.5 H	260.15 H		
U/l 7642 7642	mg/dl 8035		
SID:94000101031	ID:	Date:06/11/2022	Round No: 2
AST	Glucose PAP		
177.0 H	259.84 H		
U/l 7642 7642	mg/dl 8035		
SID:94000101041	ID:	Date:06/11/2022	Round No: 2
AST	Glucose PAP		
178.9 H	257.90 H		
U/l 7642 7642	mg/dl 8035		
SID:94000101051	ID:	Date:06/11/2022	Round No: 2
AST	Glucose PAP		
181.3 H	256.39 H		
U/l 7642 7642	mg/dl 8035		
SID:94000101061	ID:	Date:06/11/2022	Round No: 2
AST	Glucose PAP		
184.7 H	255.41 H		
U/l 7642 7642	mg/dl 8035		
SID:94000101071	ID:	Date:06/11/2022	Round No: 2
AST	Glucose PAP		
178.0 H	267.58 H		
U/l 7642 7642	mg/dl 8035		
SID:94000101081	ID:	Date:06/11/2022	Round No: 2
AST	Glucose PAP		
178.8 H	251.38 H		
U/l 7642 7642	mg/dl 8035		
SID:94000101091	ID:	Date:06/11/2022	Round No: 2
AST	Glucose PAP		
182.0 H	253.53 H		
U/l 7642 7642	mg/dl 8035		
SID:94000101101	ID:	Date:06/11/2022	Round No: 2
AST	Glucose PAP		
181.5 H	246.00 H		
U/l 7642 7642	mg/dl 8035		
SID:94000101111	ID:	Date:06/11/2022	Round No: 2
AST	Glucose PAP		
179.0 H	253.64 H		
U/l 7642 7642	mg/dl 8035		
SID:94000101121	ID:	Date:06/11/2022	Round No: 2
AST	Glucose PAP		
182.3 H	240.02 H		
U/l 7642 7642	mg/dl 8035		
SID:94000101131	ID:	Date:06/11/2022	Round No: 2
AST	Glucose PAP		
182.7 H	255.60 H		
U/l 7642 7642	mg/dl 8035		
SID:94000101141	ID:	Date:06/11/2022	Round No: 2
AST	Glucose PAP		
181.4 H	249.25 H		
U/l 7642 7642	mg/dl 8035		

Handwritten signature and date:
11/06/22

SID:94000101151

ID:

Date:06/11/2022 Round No: 2

AST Glucose PAP
179.1 H 252.42 H
U/l 7642 7642 mg/dl 8035

Just 20
11/06/22

SID:94000101011 Urea 105.50 H mg/dL 7846 7846	ID:	Date:06/11/2022	Round No: 6
SID:94000101021 Urea 104.14 H mg/dL 7846 7846	ID:	Date:06/11/2022	Round No: 6
SID:94000101031 Urea 105.39 H mg/dL 7846 7846	ID:	Date:06/11/2022	Round No: 6
SID:94000101041 Urea 104.47 H mg/dL 7846 7846	ID:	Date:06/11/2022	Round No: 6
SID:94000101051 Urea 104.97 H mg/dL 7846 7846	ID:	Date:06/11/2022	Round No: 6
SID:94000101061 Urea 104.53 H mg/dL 7846 7846	ID:	Date:06/11/2022	Round No: 6
SID:94000101071 Urea 105.92 H mg/dL 7846 7846	ID:	Date:06/11/2022	Round No: 6
SID:94000101081 Urea 105.15 H mg/dL 7846 7846	ID:	Date:06/11/2022	Round No: 6
SID:94000101091 Urea 104.12 H mg/dL 7846 7846	ID:	Date:06/11/2022	Round No: 6
SID:94000101101 Urea 105.30 H mg/dL 7846 7846	ID:	Date:06/11/2022	Round No: 6
SID:94000101111 Urea 105.48 H mg/dL 7846 7846	ID:	Date:06/11/2022	Round No: 6
SID:94000101121 Urea 105.33 H mg/dL 7846 7846	ID:	Date:06/11/2022	Round No: 6
SID:94000101131 Urea 105.59 H mg/dL 7846 7846	ID:	Date:06/11/2022	Round No: 6
SID:94000101141 Urea 105.08 H mg/dL 7846 7846	ID:	Date:06/11/2022	Round No: 6

Handwritten signature and date:
1/08/22

SID:94000101151

ID:

Date:06/11/2022 Round No: 6

Urea

104.88 H

mg/dL 7846 7846

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1/06/22

PrintDate:06/21/2022 PrintTime:19:24

Name:
ID:
SID:carryover6
Sample:Common
Comment:
Physician:
Location:

Date:06/11/2022
Time:18:08
Sex:
Age:
SSNo.:

Method	Units	Results	Flag	RLot1	RLot2	Normal Range
AST	U/l	52.7	H	7642	7642	0.0- 35.0
Urea	mg/dL	37.84		7846	7846	16.80- 43.20
Glucose PAP	mg/dl	106.47		8035		80.00- 120.00

Handwritten signature and date:
6/21/22

PrintDate:06/21/2022 PrintTime:19:24

Name:
ID:
SID:carryover5
Sample:Common
Comment:
Physician:
Location:

Date:06/11/2022
Time:18:06
Sex:
Age:
SSNo.:

Method	Units	Results	Flag	RLot1	RLot2	Normal Range
AST	U/l	166.2	H	7642	7642	0.0- 35.0
Urea	mg/dL	104.43	H	7846	7846	16.80- 43.20
Glucose PAP	mg/dl	240.26	H	8035		80.00- 120.00

Handwritten signature
11/08/22

PrintDate:06/21/2022 PrintTime:19:24

Name:
ID:
SID:carryover4
Sample:Common
Comment:
Physician:
Location:

Date:06/11/2022
Time:18:04
Sex:
Age:
SSNo.:

Method	Units	Results	Flag	RLot1	RLot2	Normal Range
AST	U/l	53.8	H	7642	7642	0.0- 35.0
Urea	mg/dL	36.41		7846	7846	16.80- 43.20
Glucose PAP	mg/dl	106.35		8035		80.00- 120.00

Handwritten signature
11/01/22

PrintDate:06/21/2022

PrintTime:19:24

Name:
ID:
SID:carryover2
Sample:Common
Comment:
Physician:
Location:

Date:06/11/2022
Time:18:00
Sex:
Age:
SSNo.:

Method	Units	Results	Flag	RLot1	RLot2	Normal Range
AST	U/l	49.4	H	7642	7642	0.0- 35.0
Urea	mg/dL	36.10		7846	7846	16.80- 43.20
Glucose PAP	mg/dl	101.82		8035		80.00- 120.00

*Andy BB
11/06/22*

PrintDate:06/21/2022 PrintTime:19:24

Name:
ID:
SID:carryover3
Sample:Common
Comment:
Physician:
Location:

Date:06/11/2022
Time:18:02
Sex:
Age:
SSNo.:

Method	Units	Results	Flag	RLot1	RLot2	Normal Range
AST	U/l	165.2	H	7642	7642	0.0- 35.0
Urea	mg/dL	103.70	H	7846	7846	16.80- 43.20
Glucose PAP	mg/dl	235.71	H	8035		80.00- 120.00

Handwritten signature
11/02/22

PrintDate:06/21/2022

PrintTime:19:24

Name:

ID:

SID:carryover1

Sample:Common

Comment:

Physician:

Location:

Date:06/11/2022

Time:17:58

Sex:

Age:

SSNo.:

Method	Units	Results	Flag	RLot1	RLot2	Normal	Range
AST	U/l	168.0	H	7642	7642	0.0-	35.0
Urea	mg/dL	104.73	H	7846	7846	16.80-	43.20
Glucose PAP	mg/dl	235.29	H	8035		80.00-	120.00

*Audrey A
11/06/22*