CALIBRATION REPORT

Details of the Under Calibration:

Calibration Certificate No: SBS/CL/20-21/00433

Customer Name	DIA CARE DIAGNOSTICS	Customer Address:	#2/751, VEPPANAPALLI, KRISHNAGIRI DT, TAMILNADU
Location:	BIO CHEMISTRY	Serial No:	40289
Description:	BIO CHEMISTRYANALYZER	Tag/Asset No:	NA
Make:	TULIP	Date of Calibration:	25.01.2021
Model:	EVOLUTION 3000	Date of Due:	24.01.2022

Traceability Details:

S.No	Standard Used	Make	Model	Serial No	Validity
1	Electrical Safety Analyzer	Fluke	ESA615	2244202	24.01.2022

Environmental Conditions and Standard Operating Procedure Details:

Temperature	24°C	Calibration Done at	ONSITE
Humidity (40-70% RH)	59%	Calibration Procedure No	CP-BM001-2019/ES

REMARKS:

The above mentioned instruments has been calibrated using standard manufacturer recommended protocols, using equipments having traceability to National/ International Standards. Partial reproduction of the certificates is not permitted.

Electrical Safety Test Passed   :   ☑ Yes / ☐ No

Electrical safety test		
Parameters Used	**Measured in Test Gadget**	**Limits**
Voltage N-E	2.3 V	< 3 V
Voltage P-E	220V	< 230 V
Voltage P-E	222 V	< 230 V
Maximum Current Taken by the DUT	0.1	As per Manufacture specification
Earth Leakage Current NC	121 µA	< 500 µA for B, BF, CF
Earth Leakage Current SFC	237 µA	< 1000 µA for B, BF, CF
Enclosure Leakage Current NC	5.1 µA	< 100 µA for B, BF, CF
Enclosure Leakage Current SFC	5.3 µA	< 500 µA for B, BF, CF
Insulation Resistance M-P.E	Good	More than 100 Mohm
Insulation Resistance M-A.P	Good	More than 100 Mohm
Insulation Resistance A.P-P.E	Good	More than 100 Mohm

CALIBRATION RESULT:

☐ Corrective maintenance required

☐ Removed from use

☑ Acceptable for use

Calibration Engineer Sign:

CALIBRATION REPORT

This is to certify that, 3000 Evolution Automated Analyzer bearing Serial No. #40289

Installed at DIACARE DIAGNOSTICS, VEPPANAPALLI is performing satisfactorily.

3000 Evolution is calibrated last on 25th January 2021 by our Service Engineer, Mr. M. BALAJI.

Optical System Check	Dark Current	Dark Current Range	Remarks
340 nm	72		
405 nm	78		
450 nm	82		
510 nm	81		
546 nm	83	<200	Dark current values are within range
578 nm	81		
630 nm	85		
670 nm	89		

Optical System Check	Background	Back ground Range	Remarks
340 nm	52000		
405 nm	53500		
450 nm	54200		
510 nm	56500		
546 nm	55300	48000 to 62000	Back ground values are within range
578 nm	54100		
630 nm	51200		
670 nm	54100		

SUNSHINE BIOMEDICAL SOLUTIONS

No:68, First floor , Poomagal Main Road, Ekkattuthangal, Chennai - 600 032, Tel: 044 - 2225 2087.

Software Communication	Status	Remarks
Operation Software Initialization Check	Normal	Nil
Communication between PCand Analyzer	Normal	Nil
Shutdown Check	Normal	Nil

Robotic Check	Status	Remarks
Sample/Reagent Probe Check	Normal	Nil
Sample/Reagent Syringe Check	Normal	Nil
Mixer Unit Check	Normal	Nil
InteriorWashing Probe	Normal	Nil
Exterior Washing Probe	Normal	Nil
ExteriorWashingMixer	Normal	Nil
Reagent Unit	Normal	Nil
Reaction Unit	Normal	Nil
ReagentPreheater	Normal	Nil
Dust Filters	Cleaned	Nil

Fluidic Check	Status	Remarks
Interior Washing Probe	Normal	Nil
Exterior WashingProbe	Normal	Nil
Exterior Washing Mixer	Normal	Nil
Liquid Level Detection	Normal	Nil
Distilled Water filter	OK	Nil

Next Calibration Due on 24th January 2022

Calibrated by:

M.BALAJI

(Calibration Engineer)

Authorized Signatory:

C. SHANMUGARAJ

(Technical Manager)
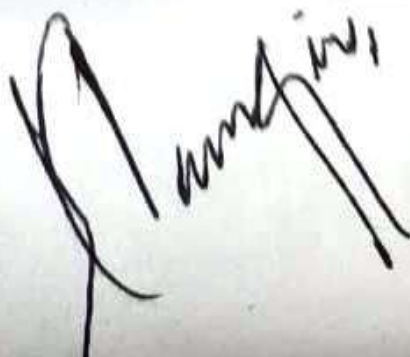
```
--------------------------------
      3000 Evolution
--------------------------------
   18/02/2021 - 12:58
   001 - GLUCOS
--------------------------------
Linear limit              70
High limit               120
Low limit                 70
--------------------------------
Sample asp.              450
Rea2 volume                0
Real volume             1000
Sample volume             10
Blank Save               YES
Repeat Blank              NO
Temperature  (C)          37
Decimal point              0
Units                  mg/dL
Bichr. filter  (nm)      ---
Read filter    (nm)      505
Delay        (Sec)         2
Standard                 100
Standard                 YES
Method                    EP
--------------------------------
```

```
              3000  Evolution
-----------------------------------
     001-GLUCOS     002-CHOL
     003-TGL        004-URACI
     005-CREAT      006-UREA
     007-TBIL       008-D BIL
     009-ALP        010-ERY
     011-SGOT       012-SGPT
     013-ALBUM      014-PROTE
     015-HCT        016-HGB
     017-CRP        018-       RF
     019-ASO        020-NA
     021-K          022-CALCI
     023-MAG        024-Na
     025-P          026-TBIL
     027-TPROT      028-TRIGL
     029-UREA       030-URIC
     031-OPEN       032-OPEN
     033-OPEN       034-OPEN
     035-OPEN       036-OPEN
     037-OPEN       038-OPEN
     039-OPEN       040-OPEN
     041-OPEN       042-OPEN
     043-OPEN       044-OPEN
     045-OPEN       046-OPEN
     047-OPEN       048-OPEN
     049-OPEN       050-OPEN
     051-OPEN       052-OPEN
     053-OPEN       054-OPEN
     055-OPEN       056-OPEN
     057-OPEN       058-OPEN
     059-OPEN       060-OPEN
     061-OPEN       062-OPEN
     063-OPEN       064-OPEN
     065-HBA1C      066-OPEN
     067-OPEN       068-OPEN
     069-OPEN       070-OPEN
     071-OPEN       072-OPEN
     073-OPEN       074-OPEN
     075-OPEN       076-OPEN
     077-OPEN       078-OPEN
     079-OPEN       080-OPEN
     081-OPEN       082-OPEN
     083-OPEN       084-OPEN
     085-OPEN       086-OPEN
     087-OPEN       088-OPEN
     089-VASP       090-VKIN
     091-OPEN       092-OPEN
     093-OPEN       094-OPEN
     095-OPEN       096-OPEN
     097-OPEN       098-OPEN
     099-OPEN       100-A340
     101-A405       102-A492
     103-A505       104-A546
     105-A578       106-A630
     107-A---       108-L340
     109-MSD3       110-OPEN
     111-OPEN       112-OPEN
     113-OPEN       114-OPEN
     115-OPEN       116-OPEN
     117-OPEN       118-OPEN
     119-kinN       120-OPEN
-----------------------------------
```

```
              3000 Evolution
-----------------------------------------
      24/02/2021 - 10:02
      013 - ALBUM
-----------------------------------------
Linear limit                    28.0
High limit                       5.5
Low limit                        3.5
-----------------------------------------
Sample asp.                      450
Rea2 Volume                      200
Rea1 Volume                      800
Sample Volume                    100
Blank Save                       YES
Repeat Blank                      NO
Temperature    (C)                37
Decimal point                      1
Units                           g/dL
Bichr. filter  (nm)              ---
Read filter    (nm)              630
Delay          (Sec)               3
Standard                         4.0
Standard                         YES
Method                            EP
-----------------------------------------
```

```
           3000 Evolution
----------------------------------------
      24/02/2021 - 10:01
      009 - ALP
----------------------------------------
Linear limit                    700
High limit                      290
Low limit                        80
----------------------------------------
Sample asp.                     450
Rea2 Volume                     200
Rea1 Volume                    1000
Sample Volume                    20
Temperature  (c)                 37
Decimal point                     0
Units                           U/L
Read filter      (nm)           405
Reading nr                        4
Reaction T.(Sec)                120
Delay        (Sec)               30
K                             02754
Method                          KIN
----------------------------------------
```

```
        3000 Evolution
---------------------------
    24/02/2021 - 09:57
    002 - CHOL
---------------------------
Linear limit              750
High limit                200
---------------------------
Sample asp.               450
Rea2 Volume               100
Rea1 Volume              1000
Sample Volume              10
Blank Save                YES
Repeat Blank               NO
Temperature  (C)           37
Decimal point               0
Units                   mg/dL
Bichr. filter  (nm)       ---
Read filter    (nm)       505
Delay        (Sec)          3
Standard                  200
Standard                  YES
Method                     EP
---------------------------
```

3000 Evolution

24/02/2021 - 09:59
005 - CREAT

Linear limit	2.5
High limit	1.2
Low limit	0.6

Sample asp.	450
Rea2 Volume	200
Rea1 Volume	2000
Sample Volume	100
Temperature (C)	37
Decimal point	1
Units	mg/dL
Read filter (nm)	505
Reaction T.(sec)	60
Delay (sec)	30
Standard	2.0
Standard	YES
Method	FXT

```
          3000 Evolution
-------------------------------

24/02/2021 - 10:01
008 - D BIL
-------------------------------

Linear limit              2.5
High limit                0.3
-------------------------------

Sample asp.               450
Rea2 Volume               200
Rea1 Volume               800
Sample Volume             100
Repeat Blank              YES
Temperature  (C)           37
Decimal point               1
Units                   mg/dL
Bichr. filter  (nm)       ---
Read filter    (nm)       546
Delay         (Sec)         3
K                      0013.0
Standard                   NO
Method                     EP
-------------------------------
```

```
         3000 Evolution
-----------------------------
    24/02/2021 - 09:58
    001 - GLUCOS
-----------------------------
Linear limit              70
High limit               120
Low limit                 70
-----------------------------
Sample asp.              450
Rea2 Volume                0
Rea1 Volume             1000
Sample Volume             10
Blank Save               YES
Repeat Blank              NO
Temperature  (C)          37
Decimal point              0
Units                  mg/dL
Bichr. filter  (nm)      ---
Read filter    (nm)      505
Delay        (Sec)         2
Standard                 100
Standard                 YES
Method                    EP
-----------------------------
```

```
           3000 Evolution
-------------------------------------
  24/02/2021 - 10:01
  011 - SGOT
-------------------------------------
Linear limit              500
High limit                 35
Low limit                   5
-------------------------------------
Sample asp.               450
Rea2 Volume                 0
Rea1 Volume              1000
Sample Volume              10
Temperature   (C)          37
Decimal point               0
Units                     U/L
Read filter   (nm) 340
Reading nr                  4
Reaction T.(Sec)          180
Delay         (Sec)        60
                        01746
K
Method                    KIN
-------------------------------------
```

```
          3000 Evolution
-----------------------------------
    24/02/2021 - 10:03
    014 - PROTE
-----------------------------------
Linear limit            25.0
High limit               8.0
Low limit                6.0
-----------------------------------
Sample asp.              450
Rea2 Volume              200
Rea1 Volume              800
Sample volume            100
Blank save               YES
Repeat Blank             NO
Temperature  (C)         37
Decimal point            1
Units                    g/dL
Bichr. filter  (nm)      ---
Read filter    (nm)      546
Delay         (sec)      3
Standard                 8.0
Standard                 YES
Method                   EP
-----------------------------------
```

```
           3000 Evolution
-----------------------------------

24/02/2021 - 10:02
012 - SGPT
-----------------------------------

Linear limit                    500
High limit                       38
Low limit                         5
-----------------------------------

Sample asp.                     450
Rea2 Volume                     200
Rea1 Volume                     800
Sample Volume                   100
Temperature  (C)                 37
Decimal point                     0
Units                           U/L
Read filter      (nm)           340
Reading nr                        4
Reaction T.(Sec)                180
Delay          (Sec)             60
K                             01746
Method                          KIN
-----------------------------------
```

```
            3000 Evolution
---------------------------------
     24/02/2021 - 09:58
     003 - TGL
---------------------------------

Linear limit              1000
High limit                 165
Low limit                   65
---------------------------------

Sample asp.                450
Rea2 Volume                  0
Rea1 Volume               1000
Sample volume               10
Repeat Blank               YES
Temperature (C)             37
Decimal point                0
Units                    mg/dL
Bichr. filter (nm)         ---
Read filter   (nm)         505
Delay         (Sec)          3
Standard                   200
Standard                   YES
Method                      EP
---------------------------------
```

```
          3000 Evolution
-------------------------------------

  24/02/2021  -  10:00
  007  -  TBIL
-------------------------------------

  Linear limit                   2.5
  High limit                     1.0
-------------------------------------

  Sample asp.                    450
  Rea2 Volume                    200
  Rea1 Volume                    800
  Sample Volume                  100
  Repeat Blank                   YES
  Temperature   (C)               37
  Decimal point                    1
  Units                        mg/dL
  Bichr. filter  (nm)   ---
  Read filter    (nm)  546
  Delay        (Sec)               3
  K                          0013.0
  Standard                        NO
  Method                          EP
-------------------------------------
```

```
------------------------------------
          3000 Evolution
------------------------------------
     24/02/2021 - 09:59
     004 - URACI
------------------------------------
Linear limit               2.5
High limit                 7.0
Low limit                  2.5
------------------------------------
Sample asp.                450
Rea2 Volume                200
Real Volume                2000
Sample Volume               20
Blank Save                 YES
Repeat Blank               NO
Temperature   (C)           37
Decimal point               1
Units                    mg/dL
Bichr. filter (nm)        ---
Read filter   (nm)        505
Delay         (sec)         3
Standard                   8.0
Standard                   YES
Method                     EP
------------------------------------
```

```
------------------------------------
          3000 Evolution
------------------------------------
    24/02/2021 - 10:00
    006 - UREA
------------------------------------
Linear limit             250
High limit                35
Low limit                  5
------------------------------------
Sample asp.              450
Rea2 Volume               50
Real Volume             1200
Sample Volume             10
Blank Save               YES
Repeat Blank              NO
Temperature  (C)          37
Decimal point              0
Units                  mg/dL
Bichr. filter  (nm)      ---
Read filter    (nm) 578
Delay        (Sec)         3
Standard                  40
Standard                 YES
Method                    EP
------------------------------------
```