

Diagnostics India Private Limited  
Industrial Area,

DiaSys

229, FIA, Patparganj  
Ground and first Floor,

New Delhi -110092



## CALIBRATION CERTIFICATE'

### CALIBRATION PROTOCOL

The purpose of this calibration protocol is to define the qualifications and the acceptance standard in order to verify the normal operation and function of the Diasys SYS 200 Pro Auto chemistry analyzer in the laboratory. Trained knowledgeable personnel from Diasys Diagnostics India Pvt Ltd along with the department personnel will perform and review analyser calibration protocol as mentioned by the manufacturer. The satisfactory outcome of this procedures assures that the system functions according to the parameters.

#### EQUIPMENT INFORMATION: -

Instrument NameSYS 200 : PRO AUTO CHEMISTRY ANALYZER

Model/TypeSYS 200 Pro / : Bench Type-Random Bio Chemistry Analyzer

Serial NoSYS20220706 :

Calibration Done On10-08- : 2024

Next Calibration Due On10- : 08-2025

: Laboratory/HospitalKRSNAA DIAGNOSTIC LTD (Inside  
Regional hospital Kullu (H.P)

Supported ByDiasys : Diagnostics India Pvt Ltd

CIN : U74992MH2013PTC248371

**Diagnostics India Private Limited**  
Industrial Area,

CIN

Registered Office

Plot No. A.821, T.T.C. Area,

**DiaSys Diagnostics India Private Limited**

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The Specialists for diagnostic system solutions

Maharashtra, India. Found and automated Laboratory systems Email • info@diagsys.in Tel. No.

Toll Free 18001201447

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## CALIBRATION AND MAINTAINANCE PROCEDURES

### MAINTAINANCE:

Instrument was checked for cleanliness.

Cuvettes were manually cleaned and also performed rinsing cuvette operation in maintenance.

Wash unit working was checked whether it is dispensing and aspirating alkaline detergent and water in the perfect sequence manually

- Cleaned sample, reagents and mixing probes manually with alcohol and then with distilled water, also performed sample probe rinsing in the maintenance.
- Performed sample, reagents and mixer probes horizontal and vertical check-up.
- Auto effluent pipeline rinsing was performed using magnetic valve detergent.
- Syringe exhaust was performed to remove any air bubbles present in the syringes.
- Instrument mechanism operation check was done by 20 times and found instrument satisfied operation conditions.

### CALIBRATION:

- Input supply and lamp voltage for the machine was found adequate using the multimeter.
- Lamp intensity and cuvette check values are measured in the maintenance screen and reports are attached
- Incubation temperature readings are indicated as in the software
- Reagent compartments cooling temperature is indicated in LED display behind the machine.
- Voltages across different testing points were checked.

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DiaSys

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This is to certify that this Analyzer has been inspected and calibrated for following parameters

TEST PARAMETER	TARGET VALUE & RANGE	OBTAINED VALUE
INPUT VOL TAGE	230-240V AC	234V AC
LAMP INTENSITY CHECK	8000- 18000 for all wavelengths	Refer attachment
CUVETTE CHECK	<+/- 800 for all wavelengths	Refer attachment
INCUBATOR TEMP	37 degree +/- 0.3	37.0 degree (Software)
REAGENT COMPARTMENT COOLING CHECK	4to 10 degrees centigrade	5.2 degree
DETECTOR PERFORMANCE CHECK	Voltage b/w 3.5 to 4.5V	3.7 to 4.2V
12V LAMP SUPPLY	12 +/- 0.3V	12.18V
5VSUPPLY	5 +/- 0.3V	5.05V
24VSUPPLY	24 +/- 0.3V	23.98V

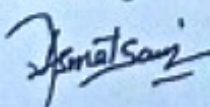

The results are obtained as per specifications & tolerance ranges. Calibrations of routine tests were also done & the results of controls & sample repeatability found satisfactory.

Report Sign Off:

Calibration Done By: Gaurav Dhand

Designation: Sr. Area Service Manager

Date & Sign: 10/12/2022

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Industrial Area,

Registered Office

No. A-821, T.T.C. Industrial Area,

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India

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