

## Certificate of Calibration

Reference No R120027742  
Date of Issue 10 Nov 2020  
Customer CYPRESS MEDIC SDN BHD  
ID: 029060 No.73-3 & 73-4  
Jalan Equine 10, Taman Equine  
43300 Seri Kembangan  
Selangor

Cert. No. PSYN- 20077038

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Instrument Thermometer Tester (Temperature Liquid Bath)  
Model ROSSMAX THERMO CALIBRATOR  
Serial No 2K140320R140003-5  
Control No C9211H  
Equipment ID N/A  
Capacity/Range Max 45 °C

Date of Calibration 06 Nov 2020  
Recalibration Date 06 Nov 2021

(Specified by Customer) The User should be aware there are many factors may cause this instrument to drift out of calibration limits prior to the stated recalibration date.

Condition of Instrument  
Before Calibration Good Physical Condition  
After Calibration Calibrated and Serviceable

Location of Calibration Trescal Laboratory  
Calibration Environment (23 ± 2) °C, (55 ± 15) %rh  
Calibration Method LCP 01108L

### Reference Standard Used

| Reference Instrument                  | Factory No | Control No | Certificate No | Traceable to | Due Date    |
|---------------------------------------|------------|------------|----------------|--------------|-------------|
| Temperature Indicator With PRT Sensor | PH-T-PT9   | C0260B     | PSYP-20057214  | NMIM         | 20 Aug 2021 |
| Temperature Indicator with PRT Sensor | PH-T-PT24  | C0260Q     | PSYP-20057215  | NMIM         | 20 Aug 2021 |

Calibrated By

Nadia Liyana Binti Amirruddin

Approved Signatory

Jag Oh Joo Kiat

The uncertainties are for a confidence probability of approximately 95%

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## Certificate of Calibration

Control No. C9211H

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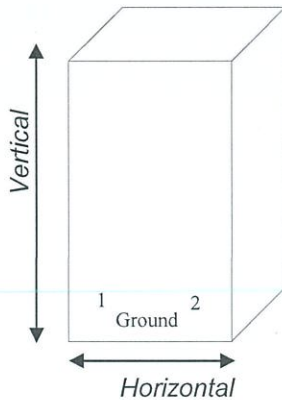
### Instrument Calibrated

|             |      |    |
|-------------|------|----|
| Resolution  | 0.01 | °C |
| Readability | 0.01 |    |

### Calibration Results

|  |       |       |       |
|--|-------|-------|-------|
| <b>Set Temperature</b>                 | 30.00 | 37.00 | 42.00 |
| <b>Indicated Bath Temperature</b>      | 30.00 | 37.00 | 42.00 |
| <b>Measured Bath Temperature</b>       | 30.00 | 37.04 | 42.10 |
| <b>Horizontal Temperature Gradient</b> | 0.01  | 0.02  | 0.01  |
| <b>Vertical Temperature Gradient</b>   | 0.01  | 0.00  | 0.00  |
| <b>Stability</b>                       | 0.02  | 0.02  | 0.02  |
| <b>Loading Effect</b>                  | 0.01  |       |       |
| <b>Measurement Uncertainty ±</b>       | 0.06  | 0.06  | 0.06  |

Position of sensor



### Uniformity Test

#### Horizontal Temperature Gradient

|                           |       |       |       |
|---------------------------|-------|-------|-------|
| <b>Set Temperature</b>    | 30.00 | 37.00 | 42.00 |
| <b>Variation at 50 mm</b> | 0.01  | 0.02  | 0.01  |

#### Vertical Temperature Gradient

|                                   |       |       |       |
|-----------------------------------|-------|-------|-------|
| <b>Set Temperature</b>            | 30.00 | 37.00 | 42.00 |
| <b>Variation Ground at 140 mm</b> | 0.00  | 0.00  | 0.00  |
| <b>Variation Ground at 120 mm</b> | -0.01 | 0.00  | 0.00  |
| <b>Variation Ground at 100 mm</b> | -0.01 | 0.00  | 0.00  |
| <b>Variation Ground at 70 mm</b>  | -0.01 | 0.00  | 0.00  |

Coverage Factor,  $k = 2$

Info1: Horizontal Temperature Gradient ~The greatest temperature difference occurring in the measurement zone of same level.

Info2: Vertical Temperature Gradient ~The greatest temperature difference occurring in the measurement zone from the lower end to a specify upper end.

Info3: Stability ~The maximum range of temperatures indicated by a sensor in the measurement zone over a 30 minute period during equilibrium stage.

Info4: Loading Effect ~The change in temperature sensed by a reference thermometer and a test thermometer which occurs when further rod are added.

Info5: Uncertainty ~ Parameter, associated with the result of measurement, that characterises the dispersion of the value that reasonably be attributed to the measurand.

The uncertainties are for a confidence probability of approximately 95%

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