

Certificate No.

24PYT3\_DEC12240095

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### **Certificate of Calibration**

EQUIPMENT : MODULE, ECG/SPO2/NIBP

ID CODE : PYT3\_00811\_1

MANUFACTURER : PHILIPS

MODEL : M3001A

SERIAL No. : DE9070B7TR

LOCATION : GASTROINTESTINAL LABORATORY(GI)

SUBMITTED BY : PHYATHAI 3 HOSPITAL

111 Phet Kasem Rd., Pak Khlong Phasi Charoen, Phasi Charoen Bangkok 10160

Tel: (662) 467-1111 Fax: (622) 467-1111

CALIBRATED DATE : 1 DECEMBER 2024
ISSUE DATE : 30 DECEMBER 2024

Performed by : Approved by : PUKARIN TONGKLIANG

SOM KONKAEW PUKARIN TONGKLIANG

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### **CONDITION OF THIS RESULT OF TEST**

#### 1. REFERENCE STANDARD INSTRUMENT:

MASTERMANUFACTURERMODELSERIAL NO.CERTIFICATE NO.DUE DATETester, Vital SignFLUKEPROSIM 8570205924MD54530 Apr 2025Simulator

### 2. THIS CERTIFICATION IS TRACEABLE TO:

- Technology Promotion Association (Thai-Japan)

### 3. THIS RESULT OF TEST WAS FOUND ACCURATE AS SHOW ON DATE AND PLACE OF TEST ONLY



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# **Calibration Report**

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DATE OF CALIBRATION : 1 DECEMBER 2024

ENVIRONMENT : TEMPERATURE 25 °C

RELATIVE HUMIDITY 55 %

### **PROCEDURE USED:**

This instrument was calibration by comparison with standard

### **MEASURMENT RESULT:**

/	Without Adjustment		Before Adjustment		After Adjustment
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Systolic						
Standard Setting	UUC* Reading	Error	% Error	Uncertainty		
(mmHg)	(mmHg)	(mmHg)	(%)	(mmHg)		
60	62.01	2.01	3.35	± 0.0579		
120	116.98	-3.02	-2.52	± 0.0438		
200	197.01	-3.00	-1.50	± 0.0828		

Diastolic						
Standard Setting	UUC* Reading	Error	% Error	Uncertainty		
(mmHg)	(mmHg)	(mmHg)	(%)	(mmHg)		
30	32.98	2.98	9.94	± 0.0769		
80	79.00	-1.00	-1.25	± 0.0083		
150	149.03	-0.97	-0.65	± 0.0367		

Heart Rate						
Standard Setting	UUC* Reading	Error	% Error	Uncertainty		
(BPM)	(BPM)	(BPM)	(%)	(BPM)		
60	59.96	-0.04	-0.07	± 0.0482		
80	79.99	-0.01	-0.01	± 0.1109		
120	119.98	-0.03	-0.02	± 0.1125		

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%Spo2						
Standard Setting	UUC* Reading	Error	% Error	Uncertainty		
(%SPO <sub>2</sub> )	(%SPO <sub>2</sub> )	(%SPO <sub>2</sub> )	(%)	(%SPO <sub>2</sub> )		
90	90.02	0.02	0.02	± 0.0589		
96	97.03	1.03	1.07	± 0.0573		
100	99.96	-0.04	-0.04	± 0.0435		

### **UUC\*: Unit Under Calibration**

The reported uncertainty of measurement was based on a standard uncertainty multiplied by a coverage factor k = 2, providing a level of confidence of approximately 95%

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