

Certificate No. 24PTP\_0104240322

Page 1 of 3

### **Certificate of Calibration**

EQUIPMENT : VASCULAR SCREENING UNIT (ABI)

ID CODE : PLP03861

MANUFACTURER : FUKUDA DENSHI

MODEL : VASERA VS-2000

SERIAL No. : 50300417

LOCATION : General Surgery

SUBMITTED BY : PHYATHAI PHAHOLYOTHIN HOSPITAL

670/1 Phaholyothin Road, Samsen Nai, Phaya Thai, Bangkok 10400

Tel: 02-271-7000 Fax: -

CALIBRATED DATE : 25 APRIL 2024

ISSUE DATE : 1 MAY 2024

Performed by:

Approved by :

USANEE CHALONGPHOKSILCHAI

PHUWASIN YIWKIM

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

#### 1. REFERENCE STANDARD INSTRUMENT:

MASTERMANUFACTURERMODELSERIAL NO.CERTIFICATE NO.DUE DATEVitalsign SimulatorFlukeProSim8254103123MD7777 Jun 2024

#### 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



Certificate No. 24PTP\_0104240322

Page 2 of 3

# **Calibration Report**

EQUIPMENT : VASCULAR SCREENING UNIT (ABI)

ID CODE : PLP03861

MANUFACTURER : FUKUDA DENSHI MODEL : VASERA VS-2000

SERIAL No. : 50300417

DATE OF CALIBRATION : 25 APRIL 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(La)				
Standard Setting	UUC* Reading	Error	% Error	Uncertainty
(mmHg)	(mmHg)	(mmHg)	(%)	(mmHg)
60	62.00	2.00	3.33	± 0.9238
200	197.00	-3.00	-1.50	± 1.7321

Diastolic(La)						
Standard Setting	UUC* Reading	Error	% Error	Uncertainty		
(mmHg)	(mmHg)	(mmHg)	(%)	(mmHg)		
30	33.00	3.00	10.00	± 0.7506		
150	152.00	2.00	1.33	± 1.4434		

Systolic(Lb)							
Standard Setting	UUC* Reading	Error	% Error	Uncertainty			
(mmHg)	(mmHg)	(mmHg)	(%)	(mmHg)			
60	64.00	4.00	6.67	± 0.9238			
200	195.00	-5.00	-2.50	± 1.7321			

Diastolic(Lb)						
Standard Setting	UUC* Reading	Error	% Error	Uncertainty		
(mmHg)	(mmHg)	(mmHg)	(%)	(mmHg)		
30	31.00	1.00	3.33	± 0.7506		
150	153.00	3.00	2.00	± 1.4434		

FI-BME-NHS-CP-026/1 Rev.03 Page 2/3 Issued Date 20/07/2023



*Certificate No.* 24PTP\_0104240322

Page 3 of 3

# **Calibration Report**

EQUIPMENT : VASCULAR SCREENING UNIT (ABI)

ID CODE : PLP03861 SERIAL No. : 50300417

Systolic(Ra)						
Standard Setting	UUC* Reading	Error	% Error	Uncertainty		
(mmHg)	(mmHg)	(mmHg)	(%)	(mmHg)		
60	63.00	3.00	5.00	± 0.9238		
200	201.00	1.00	0.50	± 1.7321		

Diastolic(Ra)						
Standard Setting	UUC* Reading	Error	% Error	Uncertainty		
(mmHg)	(mmHg)	(mmHg)	(%)	(mmHg)		
30	31.00	1.00	3.33	± 0.7506		
150	147.00	-3.00	-2.00	± 1.4434		

Systolic(Rb)				
Standard Setting	UUC* Reading	Error	% Error	Uncertainty
(mmHg)	(mmHg)	(mmHg)	(%)	(mmHg)
60	62.00	2.00	3.33	± 0.9238
200	198.00	-2.00	-1.00	± 1.7321

Diastolic(Rb)							
Standard Setting	UUC* Reading	Error	% Error	Uncertainty			
(mmHg)	(mmHg)	(mmHg)	(%)	(mmHg)			
30	32.00	2.00	6.67	± 0.7506			
150	152.00	2.00	1.33	± 1.4434			

Heart Rate				
Standard Setting	UUC* Reading	Error	% Error	Uncertainty
(BPM)	(BPM)	(BPM)	(%)	(BPM)
60	60.00	0.00	0.00	± 0.0150
120	120.00	0.00	0.00	± 0.0460

### **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%