

Certificate No.

24PTP\_0104240073

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## **Certificate of Calibration**

EQUIPMENT : DETECTORS, FETAL HEART, ULTRASONIC

ID CODE : PTP00020

MANUFACTURER : TOITU

MODEL : FD-380

SERIAL No. : 9520B64

LOCATION : Obstetric & Gynecology Center

SUBMITTED BY : PHYATHAI PHAHOLYOTHIN HOSPITAL

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

Tel: 02-271-7000 Fax: -

CALIBRATED DATE : 17 APRIL 2024

ISSUE DATE : 1 MAY 2024

Performed by : Approved by : SUPATCHA BUAPUEAN

PHUWASIN YIWKIM

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

### 1. REFERENCE STANDARD INSTRUMENT:

MASTERMANUFACTURERMODELSERIAL NO.CERTIFICATE NO.DUE DATEFetal SimulatorFlukePS-320283402123MD185812 Dec 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



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# **Calibration Report**

EQUIPMENT : DETECTORS, FETAL HEART, ULTRASONIC

ID CODE : PTP00020

MANUFACTURER : TOITU

MODEL : FD-380 SERIAL No. : 9520B64

DATE OF CALIBRATION : 17 APRIL 2024

ENVIRONMENT : TEMPERATURE 24 °C

RELATIVE HUMIDITY 56 %

### **PROCEDURE USED:**

This instrument was calibration by comparison with standard

### **MEASURMENT RESULT:**

| / | Without Adjustment |  | Before Adjustment |  | After Adjustment |
|---|--------------------|--|-------------------|--|------------------|
|---|--------------------|--|-------------------|--|------------------|

| FETAL RATE       |              |       |         |             |  |  |  |  |
|------------------|--------------|-------|---------|-------------|--|--|--|--|
| Standard Setting | UUC* Reading | Error | % Error | Uncertainty |  |  |  |  |
| (BPM)            | (BPM)        | (BPM) | (%)     | (BPM)       |  |  |  |  |
| 90               | 90.75        | 0.75  | 0.83    | ± 0.7782    |  |  |  |  |
| 120              | 120.00       | 0.00  | 0.00    | ± 0.2800    |  |  |  |  |
| 150              | 151.00       | 1.00  | 0.67    | ± 0.5300    |  |  |  |  |
| 180              | 181.00       | 1.00  | 0.56    | ± 0.5300    |  |  |  |  |

#### **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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