

Certificate No.

24PTP_0104240282

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Certificate of Calibration

EQUIPMENT : ELECTROSURGICAL UNITS

ID CODE : PTP00551

MANUFACTURER : COVIDIEN

MODEL : FORCE TRIAD

SERIAL No. : T5B44980EX

LOCATION : Operating Room

SUBMITTED BY : PHYATHAI PHAHOLYOTHIN HOSPITAL

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

Tel: 02-271-7000 Fax: -

CALIBRATED DATE : 24 APRIL 2024

ISSUE DATE : 1 MAY 2024

Kanittha.

Performed by : KANITTHA SRIPRAPAD

Approved by :

PHUWASIN YIWKIM

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CONDITION OF THIS RESULT OF TEST

1. REFERENCE STANDARD INSTRUMENT:

MASTERMANUFACTURERMODELSERIAL NO.CERTIFICATE NO.DUE DATEElectrosurgeryFluke BiomedicalQA-ES III572872623MD85221 Jun 2024Analyzer

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 : ELECTROSURGICAL UNITS

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DATE OF CALIBRATION : 24 APRIL 2024

ENVIRONMENT : TEMPERATURE 23 °C

RELATIVE HUMIDITY 50 %

PROCEDURE USED:

This instrument was calibration by comparison with standard

MEASURMENT RESULT:

/	Without Adjustment	Before Adjustment	After Adjustment

Energy Monopolar/Cut				
UUC* Setting	Standard Reading	Error	% Error	Uncertainty
(Watt)	(Watt)	(Watt)	(%)	(Watt)
20	19.80	-0.20	-1.00	± 1.1547
50	49.10	-0.90	-1.80	± 2.8868
100	95.50	-4.50	-4.50	± 5.7737
200	196.00	-4.00	-2.00	± 11.5473
300	292.00	-8.00	-2.67	± 17.3210

Energy Monopolar/Coag				
UUC* Setting	Standard Reading	Error	% Error	Uncertainty
(Watt)	(Watt)	(Watt)	(%)	(Watt)
20	20.50	0.50	2.50	± 1.1547
50	48.30	-1.70	-3.40	± 2.8868
80	76.40	-3.60	-4.50	± 4.6189
100	96.10	-3.90	-3.90	± 5.7737
120	115.00	-5.00	-4.17	± 6.9284

Energy Bipolar				
UUC* Setting	Standard Reading	Error	% Error	Uncertainty
(Watt)	(Watt)	(Watt)	(%)	(Watt)
10	9.60	-0.40	-4.00	± 0.5774
30	28.20	-1.80	-6.00	± 1.7321
50	47.60	-2.40	-4.80	± 2.8868
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Energy Bipolar (Continues)					
UUC* Setting	Standard Reading	Error	% Error	Uncertainty	
(Watt)	(Watt)	(Watt)	(%)	(Watt)	
60	55.80	-4.20	-7.00	± 3.4642	
70	68.70	-1.30	-1.86	± 4.0416	

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%

FI-BME-NHS-CP-024/1 Rev.03 Page 3/3 Issued Date 20/07/2023