

Certificate No. 24PTP_0104240311

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Certificate of Calibration

EQUIPMENT : LASERS, PHYSICAL THERAPY

ID CODE : PLP00893

MANUFACTURER : REIMERS&JANSSEN

MODEL : PHYSIOLASER OLYMPIC

SERIAL No. : 18172-60

LOCATION : Physiotherapy

SUBMITTED BY : PHYATHAI PHAHOLYOTHIN HOSPITAL

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

Tel: 02-271-7000 Fax: -

CALIBRATED DATE : 23 APRIL 2024

ISSUE DATE : 1 MAY 2024

Supatcha		むりゃん
	_ 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 DATELASEROPHIRVEGA3096631EL-0016-2319 Sep 2024

POWER/ENERGY

Performed by:

METER

Stop watch FBT JS-7065 - 23E1912 7 Jun 2024

2. THIS CERTIFICATION IS TRACEABLE TO:

- Sound Level Meter 1/2" Free-field Microphone Preamplifier Calibration with sound Level Meter 1/2" Pressure-filed Microphone USB Audio interface
 - 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 : LASERS, PHYSICAL THERAPY

ID CODE : PLP00893

MANUFACTURER : REIMERS&JANSSEN

MODEL : PHYSIOLASER OLYMPIC

SERIAL No. : 18172-60

DATE OF CALIBRATION : 23 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
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Power (Wavelenght = 810 nm)					
UUC* Setting	Standard Reading	Error	% Error	Uncertainty	
(mWatt)	(mWatt)	(mWatt)	(%)	(mWatt)	
200	211.50	11.50	5.75	± 7.6160	
300	296.50	-3.50	-1.17	± 16.1581	
400	362.75	-37.25	-9.31	± 15.6994	
500	422.75	-77.25	-15.45	± 18.2921	

Time					
UUC* Setting	Standard Reading	Error	% Error	Uncertainty	
(sec.)	(sec.)	(sec.)	(%)	(sec.)	
30	30.19	0.19	0.63	± 0.6744	
60	60.37	0.37	0.61	± 0.9027	

Note: ใช้หัวเลเซอร์ SN: 14511A-012 ในการทดสอบ

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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