

Certificate No. 2

24PTP\_0104240310

Page 1 of 2

# **Certificate of Calibration**

EQUIPMENT : LASERS, PHYSICAL THERAPY

ID CODE : PLP03109

MANUFACTURER : REIMERS&JANSSEN

MODEL : PHYSIOLASER OLYMPIC

SERIAL No. : 19172-07

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		2024	
Performed by:		Approved by :		
	SUPATCHA BUAPUEAN	_	PHUWASIN YIWKIM	

This certificate may not be reproduced except in full unless permission for reproduction has been obtained in writing from the calibration.

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

### 1. REFERENCE STANDARD INSTRUMENT:

MASTERMANUFACTURERMODELSERIAL NO.CERTIFICATE NO.DUE DATELASEROPHIRVEGA3096631EL-0016-2319 Sep 2024POWER/ENERGY

OWLK/LINEN

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



*Certificate No.* 24PTP\_0104240310

Page 2 of 2

# **Calibration Report**

EQUIPMENT : LASERS, PHYSICAL THERAPY

ID CODE : PLP03109

MANUFACTURER : REIMERS&JANSSEN

MODEL : PHYSIOLASER OLYMPIC

SERIAL No. : 19172-07

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
---	--------------------	--	-------------------	--	------------------

Power (Wavelenght = 810 nm)					
UUC* Setting	Standard Reading	Error	% Error	Uncertainty	
(mWatt)	(mWatt)	(mWatt)	(%)	(mWatt)	
200	217.75	17.75	8.88	± 7.2055	
300	289.50	-10.50	-3.50	± 10.4884	
400	350.75	-49.25	-12.31	± 17.5255	
500	426.25	-73.75	-14.75	± 18.0721	

Time						
UUC* Setting	Standard Reading	Error	% Error	Uncertainty		
(sec.)	(sec.)	(sec.)	(%)	(sec.)		
30	30.36	0.36	1.18	± 0.6776		
60	60.24	0.24	0.40	± 0.9071		

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%

FI-BME-NHS-CP-085/1 Rev.00 Page 2/2 Issued Date 29/03/2024