

Certificate No. 24

24PTP\_0104240019

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### **Certificate of Calibration**

EQUIPMENT : INFUSION PUMPS

ID CODE : PTP02361

MANUFACTURER : TOP

MODEL : TOP-2200

SERIAL No. : GLY2402S

LOCATION : Patient Wards 408

SUBMITTED BY : PHYATHAI PHAHOLYOTHIN HOSPITAL

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

Tel: 02-271-7000 Fax: -

CALIBRATED DATE : 16 APRIL 2024

ISSUE DATE : 3 MAY 2024

Supatcha これでは、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 DATEInfusion PumpRIGEL MedicalMulti-Flo23Q-141223MD116924 Aug 2024

Tester

Performed by:

### 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**

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  Flow Rate  UUC* Setting Standard Reading Error % Error Uncertainty (ml/hr) (ml/hr) (ml/hr) (%) (ml/hr)  5 4.84 -0.16 -3.25 ±0.0634  80 76.37 -3.63 -4.54 ±0.2650  200 201.61 1.61 0.80 ±0.7143  Occlusion Pressure < 1000 mmHg  UUC* Setting Standard Reading (mmHg) (mmHg)  1000 350.00	EQUIPMENT	: IN	FUSION PUMPS		
MODEL : TOP-2200 SERIAL No. : GLY2402S DATE OF CALIBRATION : 16 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  Flow Rate  UUC* Setting Standard Reading Error % Error Uncertainty (ml/hr) (ml/hr) (%) (ml/hr)  5 4.84 -0.16 -3.25 ±0.0634 80 76.37 -3.63 -4.54 ±0.2650 200 201.61 1.61 0.80 ±0.7143  Occlusion Pressure < 1000 mmHg  UUC* Setting Standard Reading (mmHg) (mmHg) (mmHg) (mmHg) 1000 350.00	D CODE	: PT	P02361		
DATE OF CALIBRATION : 16 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  Flow Rate  UUC* Setting Standard Reading Error % Error Uncertainty (ml/hr) (ml/hr) (%) (ml/hr)  5 4.84 -0.16 -3.25 ±0.0634  80 76.37 -3.63 -4.54 ±0.2650  200 201.61 1.61 0.80 ±0.7143  Occlusion Pressure < 1000 mmHg  UUC* Setting Standard Reading (mmHg) (mmHg)  1000 350.00	MANUFACTURER	: TC	)P		
DATE OF CALIBRATION : 16 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  Flow Rate  UUC* Setting Standard Reading Error % Error Uncertainty (ml/hr) (ml/hr) (ml/hr) (%) (ml/hr)  5 4.84 -0.16 -3.25 ±0.0634  80 76.37 -3.63 -4.54 ±0.2650  200 201.61 1.61 0.80 ±0.7143  Occlusion Pressure < 1000 mmHg  UUC* Setting Standard Reading (mmHg) (mmHg)  1000 350.00	MODEL	: TC	P-2200		
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  Flow Rate  UUC* Setting Standard Reading Error % Error Uncertainty (ml/hr) (ml/hr) (%) (ml/hr)  5 4.84 -0.16 -3.25 ±0.0634  80 76.37 -3.63 -4.54 ±0.2650  200 201.61 1.61 0.80 ±0.7143  Occlusion Pressure < 1000 mmHg  UUC* Setting Standard Reading (mmHg) (mmHg)  1000 350.00	SERIAL No.	: GI	Y2402S		
RELATIVE HUMIDITY 56 %  PROCEDURE USED: This instrument was calibration by comparison with standard  MEASURMENT RESULT:    Without Adjustment					
RELATIVE HUMIDITY   56 %				24 °C	
### PROCEDURE USED:  This instrument was calibration by comparison with standard ###################################	ENVIRONMENT				
UUC* Setting (ml/hr)         Standard Reading (ml/hr)         Error (ml/hr)         Uncertainty (ml/hr)           5         4.84         -0.16         -3.25         ± 0.0634           80         76.37         -3.63         -4.54         ± 0.2650           200         201.61         1.61         0.80         ± 0.7143           Occlusion Pressure < 1000 mmHg			Before Adjustment	After A	djustment
(ml/hr)         (ml/hr)         (ml/hr)         (%)         (ml/hr)           5         4.84         -0.16         -3.25         ± 0.0634           80         76.37         -3.63         -4.54         ± 0.2650           200         201.61         1.61         0.80         ± 0.7143           Occlusion Pressure         < 1000 mmHg	Flow Rate				
5     4.84     -0.16     -3.25     ± 0.0634       80     76.37     -3.63     -4.54     ± 0.2650       200     201.61     1.61     0.80     ± 0.7143    Occlusion Pressure < 1000 mmHg  UUC* Setting (mmHg) (mmHg)  1000 350.00	UUC* Setting	Standard Reading	Error	% Error	Uncertainty
80       76.37       -3.63       -4.54       ± 0.2650         200       201.61       1.61       0.80       ± 0.7143         Occlusion Pressure < 1000 mmHg	(ml/hr)	(ml/hr)	(ml/hr)	(%)	(ml/hr)
200         201.61         1.61         0.80         ± 0.7143           Occlusion Pressure         < 1000 mmHg         UUC* Setting (mmHg)         Standard Reading (mmHg)           1000         350.00	5	4.84	-0.16	-3.25	± 0.0634
Occlusion Pressure < 1000 mmHg  UUC* Setting Standard Reading (mmHg) (mmHg)  1000 350.00	80	76.37	-3.63		-
UUC* Setting (mmHg)Standard Reading (mmHg)1000350.00	200	201.61	1.61	0.80	± 0.7143
UUC* Setting (mmHg)Standard Reading (mmHg)1000350.00	Occlusion Pressure	0 < 1000 mmHa	1		
(mmHg) (mmHg) 1000 350.00			1		
1000 350.00	=	_			
			-		
Use IV Set Brand: BEVER Drops/ml: 20 ml	Use IV Set Brand:	BEVER	Drops	s/ml:2	20 ml.