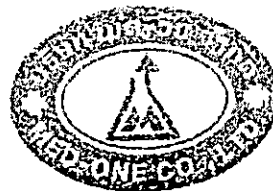




# One Step Forward in Diagnostic Accuracy— PT Determination

Dade® Innovin® Reagent  
Thromborel® S Reagent

3.3



LAWI

Answers for life.

คณะกรรมการพิจารณาผลการประกวดราคาอิเล็กทรอนิกส์

**SIEMENS**

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๒. ลงชื่อ..... กรรมการ

๓. ลงชื่อ..... กรรมการ

# Highly Sensitive PT Reagents for Reliable Testing and Quality Patient Care

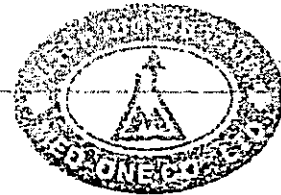


## Dade Innovin Reagent

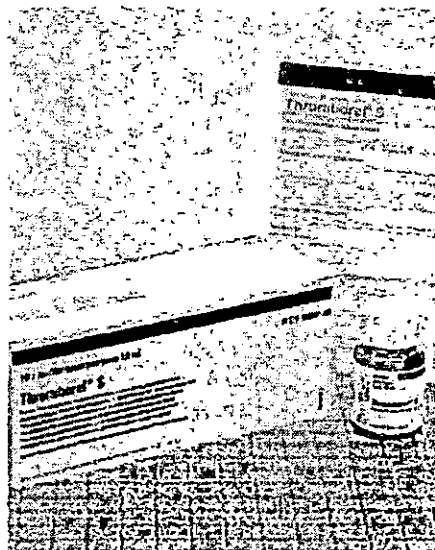
Dade Innovin reagent is prepared from purified recombinant human tissue factor produced in *E. coli* combined with synthetic phospholipids, calcium, buffers and stabilizers. The reagent contains minimal residual clotting factors such as prothrombin and Factors VII or X for clear definition of factor deficiencies and steep factor assay curves. It is highly sensitive to factor deficiencies and plasma samples from patients treated with oral anticoagulants.

The sensitivity of Dade Innovin reagent is very similar to the World Health Organization (WHO) human brain reference thromboplastin. Dade Innovin reagent is insensitive to therapeutic levels of heparin.

The high sensitivity of Dade Innovin reagent to coagulation factors, and its insensitivity to therapeutic heparin, make it ideal for monitoring oral anti-coagulant therapy and for differentiating abnormal plasmas, even in the mildly pathological range.



*Laminar*

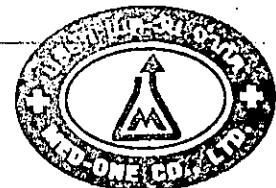


## Thromborel S Reagent

Thromborel S reagent is prepared from human placental tissue factor combined with calcium chloride and stabilizers.

Thromborel S reagent is a rapid, sensitive screening test for coagulation disorders within the extrinsic coagulation system (Factors II, V, VII and X). Due to its high sensitivity to these coagulation factors, Thromborel S reagent is also suitable for monitoring oral anti-coagulant therapy. The reagent exhibits good correlation with the WHO international reference thromboplastin preparation.

With Thromborel S reagent and the appropriate deficient plasma, it is possible to determine activity of coagulation Factors II, V, VII and X. Due to its high sensitivity, Thromborel S reagent allows for differentiation of abnormal plasmas, even in the mildly pathological range.



*Laminar*

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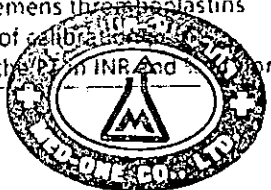
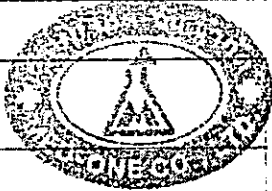
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**PT Reagents and Calibrator**

Components	Recombinant human tissue factor, synthetic phospholipids, bovine serum albumin, and calcium in stabilized HEPES buffer system
ISI value	Approximately 1.0
Reference range	10.4 – 12.4 seconds (performed on Sysmex® CA-7000 System)
OAC therapeutic range	12 – 33 %; 4.5 – 2.0 INR
Stability after reconstitution	Closed vial: 10 days (2–8°C); 5 days (15–25°C); 24 hours (37°C)
Open vial	48 hours (15°C)
Heparin insensitivity	Up to approximately 2 U/mL plasma
Calibrator	PT-Multi Calibrator* <ul style="list-style-type: none"> <li>• Calibration set for Siemens thromboplastins</li> <li>• Optimal distribution of calibration points</li> <li>• Direct calibration of the PT in INR and % of norm</li> </ul>

**PT Reagents and Calibrator**

Components	Human placenta thromboplastin and calcium chloride
ISI value	Approximately 1.0 to 1.1 <b>3.3</b>
Reference range	10.4 – 12.6 seconds (performed on Sysmex CA-7000 System)
OAC therapeutic range	15 – 36 %; 4.5 – 2.0 INR
Stability after reconstitution	Closed vial: 5 days (2–8°C) <b>3.3</b> Opened vial: 48 hours (15°C), 8 hours (37°C)
Heparin insensitivity	Up to 0.6 U/mL plasma
Calibrator	PT-Multi Calibrator* <ul style="list-style-type: none"> <li>• Calibration set for Siemens thromboplastins</li> <li>• Optimal distribution of calibration points</li> <li>• Direct calibration of the PT in INR and % of norm</li> </ul>



*Lami*

*Lami*

\* for use outside the US

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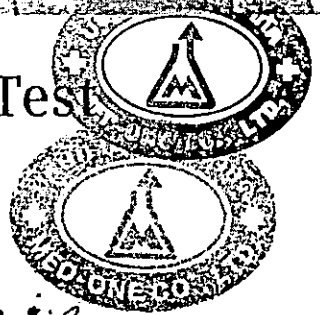


*Law*

# A State-of-the-Art Global Screening Test APTT Determination

Dade® Actin® Reagent, Dade® Actin® FS Reagent,  
Dade® Actin® FSL Reagent, Pathromtin® SL Reagent

3.4



Answers for life.

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ด.ลงชื่อ.....ประธานกรรมการ **SIEMENS**

ท.ลงชื่อ.....กรรมการ

# Count on Competence with Siemens' APTT Reagents

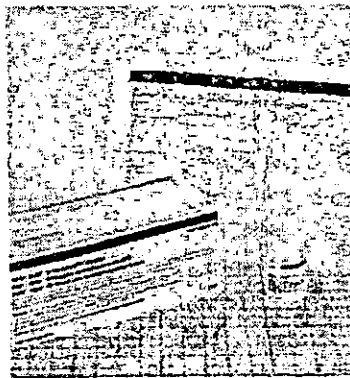
The activated partial thromboplastin time (APTT) is an important assay for pre-operative screening and the monitoring of anticoagulation with UFH, as well as argatroban or hirudin. All individuals with a history of a bleeding disorder, or who are receiving heparin therapy, should be tested with the APTT reagents. Because the results you require have to fulfill high expectations, Siemens provides you with APTT reagents for use in all of the following situations:

- Pre-operative screening
- Global determination of intrinsic coagulation system activity
- Monitoring of UFH treatment
- Sensitivity to Lupus anticoagulants
- Specific analysis of Factors VIII, IX, XI, XII



## Dade Actin Reagent

Dade Actin is an APTT reagent of low sensitivity to heparin and moderate sensitivity to factor deficiencies in the intrinsic system. This reagent is the choice for institutions requiring a moderate screening APTT reagent for routine testing. Dade Actin has moderate sensitivity to Lupus anticoagulants.



## Dade Actin FS Reagent

Dade Actin FS is an APTT reagent ideal for detecting factor deficiencies of the intrinsic system, and with moderate sensitivity to Lupus anticoagulants. Dade Actin FS fulfills all requirements of routine testing with moderate sensitivity to heparin.

3.4

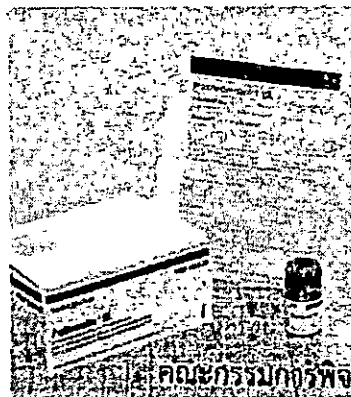


*Lawi*



## Dade Actin FSL Reagent

Dade Actin FSL is an APTT reagent containing a phospholipid combination (rabbit brain and soy bean origin) with an increased sensitivity to Lupus anticoagulants. This reagent shows moderate heparin sensitivity. According to the literature, a prolongation of the patient's base APTT will be taken into consideration to make recommendations for heparin monitoring.



## Pathromin SL Reagent

Pathromin SL is a APTT reagent for routine testing with overall moderate sensitivity to Lupus anticoagulants, factor deficiencies and heparin.



*Lawi*

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๒.ลงชื่อ..... *Dr.* .....กรรมการ

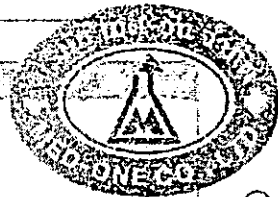
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Main features	<ul style="list-style-type: none"> <li>• Liquid reagent ready for use</li> <li>• Moderate factor sensitivity</li> <li>• Low heparin sensitivity</li> </ul>
Components	Liquid rabbit brain cephalin. Ellagic acid activator
Reference range	22.7-31.8 seconds (performed on Sysmex® CA-1500 System)
Stability after opening (closed vial)	1 week (2-15°C)
Indications	<ul style="list-style-type: none"> <li>• Overall moderate APTT screening reagent</li> <li>• Screening for functional factor defects (VIII, IX, XI, XII)</li> <li>• Moderate sensitivity to Lupus anticoagulant</li> </ul>

Main features	<ul style="list-style-type: none"> <li>• Liquid reagent ready for use</li> <li>• High factor sensitivity</li> <li>• High heparin sensitivity</li> <li>• Moderate Lupus anticoagulant sensitivity</li> </ul>
Components	Purified soy phosphatides. Ellagic acid activator
Reference range	22.1-28.1 seconds (performed on Sysmex CA-1500 System)
Stability after opening (closed vial)	1 week (2-15°C)
Indications	<ul style="list-style-type: none"> <li>• Screening for functional factor defects (VIII, IX, XI, XII)</li> <li>• General monitoring of heparin therapy</li> </ul>

Main features	<ul style="list-style-type: none"> <li>• Liquid reagent ready for use</li> <li>• Good factor sensitivity</li> <li>• Moderate heparin sensitivity</li> <li>• High Lupus anticoagulant sensitivity</li> </ul>
Components	Purified soy and rabbit brain phosphatides. Ellagic acid activator
Reference range	25.0-31.3 seconds (performed on Sysmex CA-1500 System)
Stability after opening (closed vial)	1 week (2-15°C)
Indications	<ul style="list-style-type: none"> <li>• Screening for functional factor defects (VIII, IX, XI, XII)</li> <li>• Monitoring of heparin therapy</li> <li>• High sensitivity to Lupus anticoagulant</li> </ul>

Main features	<ul style="list-style-type: none"> <li>• Liquid reagent ready for use</li> <li>• Low factor sensitivity</li> <li>• Moderate heparin sensitivity</li> <li>• Moderate Lupus anticoagulant sensitivity</li> </ul>
Components	Vegetable phospholipids. Silicon dioxide activator
Reference range	25.9-36.6 seconds (performed on BCS® System)
Stability after opening (closed vial)	2 weeks (2-25°C)
Indications	<ul style="list-style-type: none"> <li>• Moderate screening for factor defects (VIII, IX, XI, XII)</li> <li>• Moderate sensitivity to Lupus anticoagulant</li> </ul>



*Lami*

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 ๒.ลงชื่อ.....กรรมการ  
 ๓.ลงชื่อ.....กรรมการ



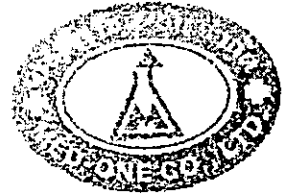
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# REACTION TUBE

4.2

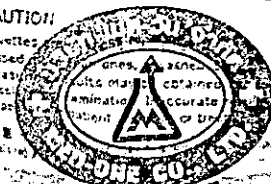
*Lami*



**CUVETTE**  
SUC-400A (Cat. 064-1481-01)

CAUTION

Cuvettes  
If used  
with  
total  
protein  
assay  
reagents, a zinc  
contaminant  
may be present  
which may  
interfere with  
the effect of  
the reagent.



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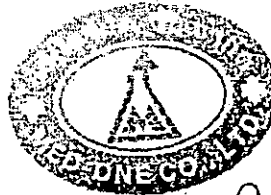
๑. ลงชื่อ..... ประธานกรรมการ

๒. ลงชื่อ..... กรรมการ

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# Specifications

Description	Tube for reaction of coagulation assays
Product code	06414810
Material	Disposable Cuvette-Polystyrene, clear and inert (doesn't react with other materials)
Intended use	Reaction tube for coagulation testing on Sysmex CS-Series fully automated blood coagulation analyzers
Storage	Store at room temperature
Pack Size	3000 tubes (1 piece / 1 assay)



*Lami*

## About Sysmex

Sysmex is a global market leader in the development and implementation of clinical diagnostic and health IT products and services for laboratories, hospitals, and healthcare organizations.

We deliver total solutions in the field of clinical laboratory testing, including hematology, coagulation and urinalysis. Supplying products and services to customers in more than 150 countries, Sysmex is the market leader in hematology and coagulation instrumentation worldwide.

By working together with our customers and business partners, Sysmex is committed to our mission of shaping the advancement of healthcare.



We Believe the Possibilities.

**Sysmex Corporation**  
1-5-1, Wakoinohama, Kagami-ku, Kobe,  
Hyogo 651-0073, Japan  
Tel: +81 (78) 265-0500 Fax: +81 (78) 265-0524  
www.sysmex.co.jp

**Sysmex Asia Pacific Pte Ltd**  
9 Tampines Grande, #06 16  
Singapore 528735  
Tel: +65 (6721) 3629 Fax: +65 (6721) 3637  
www.sysmex-ap.com

**Sysmex India Pvt Ltd**  
303 Asset Centre, 3<sup>rd</sup> Floor, Sahar Airport Road,  
Andheri (East), Mumbai-400099, India  
Tel: +91 (22) 2827-4040 Fax: +91 (22) 2836-5065  
www.sysmex.co.in

**PT Sysmex Indonesia**  
Cyber 2 Tower, 5<sup>th</sup> Floor, Unit E,  
Jl. HR. Rasuna Said Blok XS No. 15  
Jakarta Selatan 12950, Indonesia  
Tel: +62 (21) 3002 6688 Fax: +62 (21) 3002 6699  
www.sysmex.co.id

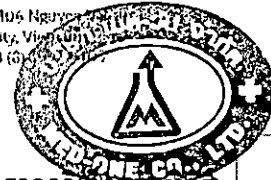
**Sysmex (Malaysia) Sdn Bhd**  
15x & 15, Jalan PJS 7/21, Datar Sunway,  
46150 Petaling Jaya, Selangor, Malaysia  
Tel: +60 (3) 9437 1783 Fax: +60 (3) 9437 1682  
www.sysmex.com.my

**Sysmex New Zealand Ltd**  
382-386 Manukau Rd, PO Box 26-085, Epsom,  
Auckland 1544, New Zealand  
Tel: +64 (9) 630-3554 Fax: +64 (9) 630-3135  
www.sysmex.co.nz

**Sysmex (Thailand) Co., Ltd.**  
14 Soi Ramlamhueng 43/1, Ramlamhueng Road,  
Wangthonglang, Bangkok 10710, Thailand  
Tel: +66 (2) 539-3127 Fax: +66 (2) 539-1750  
www.sysmex.co.th

**Sysmex Philippines Inc**  
30<sup>th</sup> Floor, MFC 100 Bldg., E. Rodriguez Jr. Ave. cor  
Eastwood Ave, Baguio City, Philippines  
Tel: +63 (72) 621-7460 Fax: +63 (2) 621-2432  
www.sysmex.com.ph

**Sysmex Vietnam Co. Ltd.**  
Unit 502, CentrePoint Building, 106 Nguyen  
Phu Nhuận Street, Ho Chi Minh City, Vietnam  
Tel: +84 (8) 3997 9400 Fax: +84 (8) 3997 9400  
www.sysmex.com.vn



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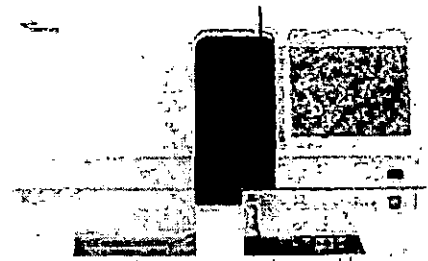
## Fully Automated Coagulation Analyzer

# CS-1600

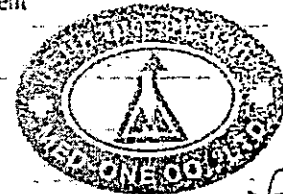
## Specifications

The Sysmex CS-1600 system is a fully automated coagulation analyzer that is ideal for mid-sized coagulation laboratories requiring an easy-to-use, cap-piercing analyzer capable of running clotting, chromogenic, and immunologic assays simultaneously.

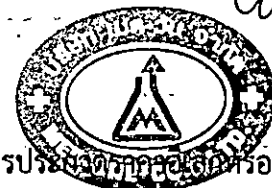
Using novel technologies, the CS-1600 assured laboratories of consistent accuracy & reliability in their testing results. In addition, there are various high-end functionalities aimed at helping laboratory operators improve their work efficiency, and providing extra support to laboratory accreditation requirements and operations.


**Reagent Test Menu**

<b>PT</b>	Dade Innovin, <u>Thromborel S</u>
<b>APTT</b>	Dade Actin, <u>Dade Actin FS</u> , Dade Actin FSL, Pathromtin SL
Fibrinogen	Dade Thrombin, Dade Fibrinogen Determination Reagent
Thrombin Time	Test Thrombin, Thromboclotin
Batroxobin Time	Batroxobin
Factor Deficiency	Factor II, V, VII, VIII, IX, X, XI, XII
Lupus Anticoagulant	LA1 screen, LA2 confirmation
Protein C Pathway	ProC Global, Protein C Reagent, Berichrom Protein C, Protein S Ac, Innovance Free Protein S
Antithrombin	Innovance Antithrombin, Berichrom Antithrombin III (A)
D-Dimer	Innovance D-Dimer
Von Willebrand Factor	vWF Ag, Innovance vWF Ac
Chromogenic	Factor VIII Chromogenic, Berichrom C-1 Inhibitor, Berichrom α2-Antiplasmin, Berichrom Plasminogen
Heparin	Berichrom Heparin



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๓. ลงชื่อ..... กรรมการ

## Measurement

### Principle

Multi-Wave Detection System:  
Transmitted Light Detection Method

Clotting Assays

4.1

405, 660, 800 nm (Percentage Detection Method)

Chromogenic Assays:  
 405 nm (Rate Method)

Immunoassays:  
 575, 660, 800 nm (Rate Method, VLIn Method)

### Configuration

CS-1600 Cap-piercing Model

### Detector

8 channels for clotting assays, chromogenic assays and immunoassays  
 The transmitted light (or A/D value) is detected every 0.1 seconds  
 Maximum reading time is 1800 seconds

### Throughput

PT: 120 test/h

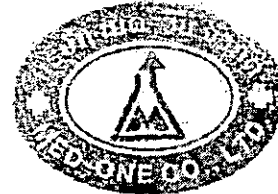
4.1

PT/APTT: 110 test/h

PT/APTT/Fbg/DD: 70 test/h

### Random Access

20 simultaneous parameters



*Louis*

## Sample Handling

### Type of Sample

Primary tubes and sample cups

### Barcode Identification

Automatic positive sample identification

### Handling

Handle racks with a mixture of closed and open tubes, and sample cups

### Capacity

Continuous loading of maximum 5 racks of 10 tubes each

4.1

### STAT

STAT sample can be analyzed as priority by executing either sample or rack interruption

### Aspiration

The sample probe, with a liquid surface sensor, quantitatively aspirates plasma from centrifuged whole blood samples

*Louis*

## Reagent and Consumable Handling

### Reagent holder

28 reagent vial positions (15°C); 12 positions are tilted at 70° to reduce dead volume  
 5 positions (room temperature)

### Barcode Identification

External 2-D handheld barcode reader for positive reagent identification; type, lot number, expiry, and calibrators, controls and reagents

### Handling

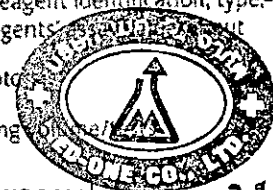
Mixture of different vial types with use of various adaptors

### Monitoring

Real-time monitoring of on-board stability, remaining

### Reaction tubes

Automatically supplied from an internal banner  
 Continuous loading of max. 300 tubes



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 ๓.ลงชื่อ.....กรรมการ

### Quality Control

Method	X-bar control, Levy-Jennings control Multi-rule (Westgard Rule) monitoring
File Capacity	300 data points x 40 files in memory

### Calibration

Multi Lot Reagent Management	Max. 5 reference curves per lot Max. 5 lots per parameter
Dilution Points	2-9

### Data Management

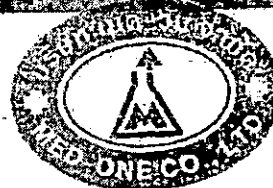
Memory Capacity	3,000 sample results with reaction curves
Output	Graphic or Data Printer (optional)

### Software

IPU	McAfee Embedded Security provided
Host Communication Interface	CA-500/1500 format, CS format, Coagrex800 format, ASTM format
Host Connection	Bi-directional RS-232C serial port or via Ethernet-TCP/IP
Operating System	Windows-based

### Power Supply

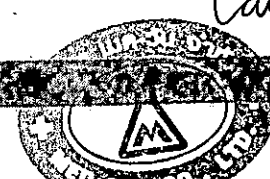
Operating Voltage	100 - 240V
Consumption	680 VA max
Frequency	50 or 60 Hz



*Lami*

### Dimensions and Weight

Main Unit	Approx. 760(W) x 690 (D) x 540 (H) mm, Approx. 85 kg
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### Operating Environment

Ambient Temperature	15 - 30°C	
Relative Humidity	30 - 85%	คณะกรรมการพิจารณาผลการปฏิบัติงานเครือข่ายอิเล็กทรอนิกส์
Heat Compensation	Approx. 2,205 BTU/h (556 kcal/h)	๑. ลงชื่อ..... ประธานกรรมการ
Noise Level During Analysis	60 dB or less	๒. ลงชื่อ..... กรรมการ
		๓. ลงชื่อ..... กรรมการ

Our Reference: STH.0006/2022

Date: 14<sup>th</sup> January 2022

To Whom It May Concern:

### CERTIFICATE OF AUTHORIZATION

This is to certify that.

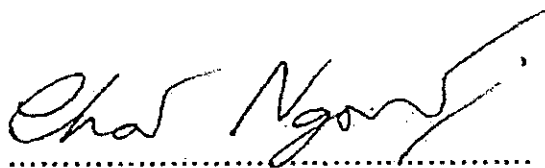
Med-One Company Limited

14 Soi Ramkamhaeng 43/1(Khunyingchua)  
Ramkamhaeng Road, Phlapphla, Wangthonglang, Bangkok 10310  
Thailand

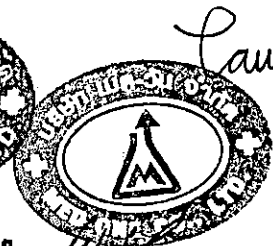
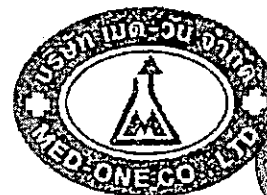
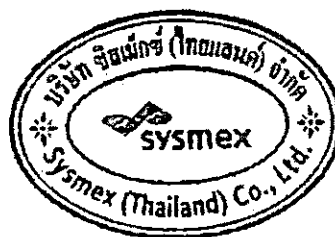
is the duly authorized as distributor of Automated Blood Coagulation  
(Instruments, reagents, parts and consumable materials) in Thailand.

This letter of authorization shall effective as of 1<sup>st</sup> April 2022 and remains  
valid up to 31<sup>st</sup> March 2023.

Yours Sincerely,



Mr. Charoensuth Ngoenprasopsuk  
President & Managing Director  
Sysmex (Thailand) Company Limited.



คณะกรรมการพิจารณาผลการประกวดราคา **ดำเนินการถูกต้อง**

๑.ลงชื่อ.....ประธานกรรมการ

๒.ลงชื่อ.....กรรมการ

๓.ลงชื่อ.....กรรมการ

To whom it may concern

**Letter of Confirmation**

We, **Siemens Healthcare Diagnostics Products GmbH**, having its registered office at Emil-von-Behring-Strasse 76, 35041 Marburg, Federal Republic of Germany (hereinafter referred to as "SIEMENS"), hereby confirm that SIEMENS and

**Sysmex Corporation**, having its principal place of business at 1-5-1 Wakinohama-Kaigandoori, Chuo-ku, Kobe 651-0073, Japan (hereinafter referred to as the "SYSMEX"),

act according to a Global Supply, Distributorship, Sale and Service Agreement between **Siemens Healthcare Diagnostics Inc.**, having an office at 511 Benedict Avenue, Tarrytown, NY 10591, United States of America, and **SYSMEX**, dated March 23, 2009, as subsequently amended (hereinafter referred to as the "GLOBAL AGREEMENT").

The GLOBAL AGREEMENT regulates, among other things, the supply of hemostasis products of SIEMENS and SYSMEX in designated territories.

This Letter of Confirmation shall remain valid during the term of the GLOBAL AGREEMENT unless revoked earlier by SIEMENS at any time.

Sincerely,

**Siemens Healthcare Diagnostics Products GmbH**

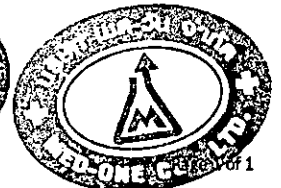
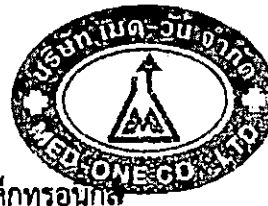
*iv A Güntner*

Name: **Andrea Güntner**  
Title: **Senior Manager, Regulatory Affairs**

*i.A. Katja Schmidt*

Name: **Katja Schmidt**  
Title: **Manager, Regulatory Affairs**

Date: **September 25, 2018**



Siemens Healthcare Diagnostics Products GmbH การนำเข้าและการกระจายสินค้า  
Emil-von-Behring-Str. 76  
35041 Marburg  
Germany

๑. ลงชื่อ..... *W. Chen* ..... ประจํา **ตำแหน่งที่ต้อง**  
๒. ลงชื่อ..... *W. Chen* ..... กรรมการ  
๓. ลงชื่อ..... *W. Chen* ..... กรรมการ

*Chen*

Our Reference: STH.0006/2022

Date: 14<sup>th</sup> January 2022

To Whom It May Concern:

### CERTIFICATE OF AUTHORIZATION

This is to certify that.

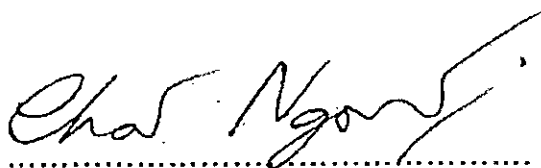
Med-One Company Limited

14 Soi Ramkamhaeng 43/1(Khunyingchua)  
Ramkamhaeng Road, Phlapphla, Wangthonglang, Bangkok 10310  
Thailand

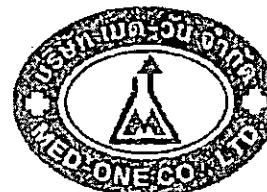
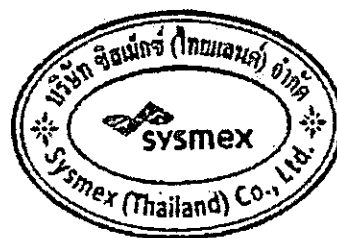
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Yours Sincerely,



Mr. Charoensuth Ngoenprasopsuk  
President & Managing Director  
Sysmex (Thailand) Company Limited.



คณะกรรมการพิจารณาผลการประกวดราคา **สิ้นสุดแล้ว**

๑. ลงชื่อ..... ประธานกรรมการ

๒. ลงชื่อ..... กรรมการ

๓. ลงชื่อ..... กรรมการ

To whom it may concern

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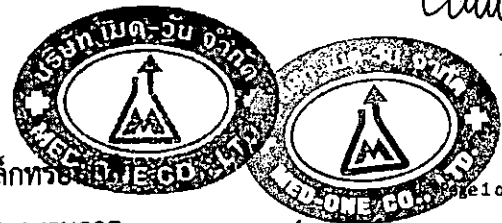
Sincerely,

**Siemens Healthcare Diagnostics Products GmbH**

  
Name: Andrea Guntner  
Title: Senior Manager, Regulatory Affairs


  
Name: Katja Schmidt  
Title: Manager, Regulatory Affairs

Date: September 25, 2018



Siemens Healthcare Diagnostics Products GmbH  
Emil-von-Behring-Str. 76  
35041 Marburg  
Germany

๑. ลงชื่อ..... ประชุมกรรมการ  
๒. ลงชื่อ..... กรรมการ  
๓. ลงชื่อ..... กรรมการ

**สำเนาถูกต้อง** 

*Lowi*