



## **Participant Handbook**

THE EXTERNAL QUALITY ASSESSMENT SCHEMES IN CLINICAL LABORATORY FACULTY OF MEDICAL TECHNOLOGY, MAHIDOL UNIVERSITY



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## [1] Introduction

The External Quality Assessment Schemes in Clinical Laboratory, Faculty of Medical Technology, Mahidol University, were established in 1985 by



the late Professor Dr. Vikul Viranuvatti, the founding Dean and a pioneer in Thailand's medical technology profession. This program was the first external assessment initiative for medical laboratories in Thailand and continues to play a vital role in ensuring laboratory standards both nationally and internationally. By

#### Vision

To become a leading international organization in External Quality Assessment (EQA) for medical laboratories by 2027, through the advancement of research, innovation, and services that deliver maximum and sustainable benefits to society.

#### Mission

1. Provide External Quality Assessment (EQA) services for medical laboratories in accordance with international standards, ensuring fairness, impartiality, and confidentiality of participants and customers.

2. Engage in research and development to continuously enhance operations, delivering maximum benefit and sustainable to society.

3. Align with the policies of the Faculty, University, and national authorities to achieve the ultimate goal of organization and partners.

Currently, 13 schemes are available, covering all 5 major areas. Two schemes were accredited under ISO/IEC 17043 in 2022, and preparations are underway to obtain accreditation for all remaining schemes. The details of each scheme are as follows:

#### 1. Clinical Chemistry

1.1 The External Quality Assessment Scheme in Clinical Chemistry (EQAC)

1.2 The External Quality Assessment Scheme in Cardiac Markers (EQACM)

1.3 The External Quality Assessment Scheme in Hormones (EQAH)

1.4 The External Quality Assessment Scheme in Tumor Markers (EQAT)

- 2. Clinical Microscopy
  - 2.1 The External Quality Assessment Scheme in Clinical Microscopy: Complete Blood Count (B-EQAM)
  - 2.2 The External Quality Assessment Scheme in Clinical Microscopy: Blood Film Examination (H-EQAM)
  - 2.3 The External Quality Assessment Scheme in Clinical Microscopy: Urine - Cytohematology Proficiency Test (UC-EQAM)
  - 2.4 The External Quality Assessment Scheme in Clinical Microscopy: Virtual Blood Film Examination (VH-EQAM)
- 3. Parasitology

The External Quality Assessment Scheme in Parasitology (EQAP)

- 4. Immunology
  - 4.1 The External Quality Assessment Scheme in Clinical Immunology: Syphilis Serology (EQAI: Syphilis)
  - 4.2 The External Quality Assessment Scheme in Clinical Immunology: Hepatitis B virus serology (EQAI: HBV)
  - 4.3 The External Quality Assessment Scheme in Clinical Immunology: Hepatitis C virus serology (EQAI: HCV)

5. Bacteriology

- The External Quality Assessment Scheme in Bacteriology (EQAB)
- Gram stain (EQAB: GRAM)
- Acid fast bacilli stain (EQAB: AFB)
- Bacterial identification and susceptibility testing (EQAB: IDEN & AST)

## [2] Objectives

2.1 Deliver services in compliance with ISO 17043 requirements and related standards.

2.2 Ensure impartial, equitable service delivery while strictly upholding the confidentiality of participants and customers.

2.3 Maintain service quality in accordance with established standards to meet participant needs and maximize their benefits.

2.4 Commit to continuously improve the quality of products and services.

## [3] Department and Responsibilities

Departments	Responsibilities
Center for	• Customer service and relationship
Standardization and Product Validation	• Participant enrollment process
	<ul> <li>Website and database administrator</li> </ul>
	<ul> <li>Coordinate among EQA Schemes and participants</li> </ul>
	• EQAC, EQACM and and production
	of lyophilized samples
Clinical Chemistry	• EQAH and EQAT
Community Medical	• EQAP
Technology	
Clinical Microscopy	<ul> <li>B-EQAM, H-EQAM, VH-EQAM and</li> </ul>
	UC-EQAM
Clinical Microbiology and	• EQAI: Syphilis, EQAI: HBV, EQAI: HCV
Applied Technology	and EQAB

## [4] Fees and General Information

Enrollment

July 1, 2025 – November 1, 2025

## Membership period: January 1 – December 31, 2025

			Maximum	
No.	Program	Fee (THB)	number of	Payment Due Date
			Participants	
1.	EQAC	3,000		
2.	EQACM	5,000	1,000	
3.	EQAH	4,500	1,000	
4.	EQAT	4,500		
5.	EQAP**	2,000	200	
6.	B-EQAM	3,500	550	
7.	H-EQAM	3,500	250	
8.	VH-EQAM	3,000		
9.	UC-EQAM	1,500		
10.	EQAI: Syphilis	2,200		November 1, 2025
11.	EQAI: HBV	2,200		
12.	EQAI: HCV	2,200		
	EQAB: All	3,000		
	1) GRAM		1,000	
	2) AFB			
13.	3) IDEN & AST			
	EQAB: GRAM	1,000		
	EQAB: AFB	1,000		
	EQAB: IDEN & AST	1,200		

#### \* <u>Note</u>: EQAP: You can request the project to evaluate specific test as follows.

(Requested in the first evaluation)

- 1) Fecal examination and digital specimen
- 2) Fecal examination
- 3) Digital specimen

\*\*\* Does not include international logistic fee for international participants.

## [5] Requirement for Participant

1. Government and private medical laboratories.

Laboratories outside of Thailand are accepted with additional logistical and customs expenses.

2. Apply in person on EQAS-MUMT website.

3. Making payment and attach a proof of payment within the deadline.

4. Check participation status by logging into the website https://eqamt.mahidol.ac.th and go to payment menu.

- 5. If you are cancellation, please send a request to https://eqamt.mahidol.ac.th
- 6. To comply with the confidentiality policy,
- all correspondence must be done by the applicants themselves.
- 7. Any questions or suggestions, please contact:

Center for Standardization and Product Validation Faculty of Medical Technology, Mahidol University

999 Phutthamonthon Sai 4 Road

Salaya, Puthamonthon

Nakhon Pathom 73170

Thailand

Telephone	0 2441 4376 ext 2512
Mobile	06 3895 1287
E-mail	eqamtmu@gmail.com
Line Official	@073tlzfy
Line OpenChat	EQAS MUMT CONNECT





## [6] Application

**Application channel** 

**EQAS-MUMT** Website



https://eqamt.mahidol.ac.th

backup: https://mt.mahidol.ac.th/

## 6.2 Payment Methods

i ayincine meenoas			
1. Cash	Center for standardization and Production		
	Validation, 5 <sup>th</sup> floor		
	Science and Medical Technology Building		
	Faculty of Medical Technology,		
	Mahidol University		
2. QR PromptPay	Faculty of Medical Technology, Mahidol		
Prompt Pay	University		
PrompuPay	Invoice		
3. Money Transfer	Via Bank / ATM / E-banking mobile banking		
	Siam Commercial Bank (SCB)		
SCB ไทยพาณิชย์	Account number: 016 452491 2		
	Account name "Project the external quality		
	assessment schemes in clinical laboratory,		
	faculty of medical technology"		
4. Cheque	Pay to "Project the external quality assessment		
	schemes in clinical laboratory, faculty of		
	medical technology"		

## 6.3 Proof of payment

After your paid bill. Please attach a proof of payment to https://eqamt.mahidol.ac.th at the menu "payment" or eqamtmu@gmail.com.

#### 6.4 Receipt

After staff received a proof of payment. The Finance Officer will review your slip payment within 30 days. Please keep a proof of payment until your will receive original receipt from EQAS.

#### 6.5 Cancellation and refund policy

After completing the application, please review the billing details and application fee carefully. As payments are non-refundable, ensure that all information is accurate before proceeding with the payment.

## [7] Request for a copy document

#### 7.1 Receipts

If you do not receive the receipt within 30 days after payment, please contact us to check payment status.

## [8] Certificates

The External Quality Assessment Scheme will be awarded Ecertificate to participants who meet the requirement of each scheme via online and after the end of scheme. Please participant answer satisfaction survey.

## [9] Request for a copy document

The identity of participants is confidential and known only to persons involved in the operation of the program, unless the participant waives confidentiality. If necessary, only participants' ID provided by the program will be used.

Interested parties who want a copy of the report must first obtain permission from the participant and then fill out the form to verify that permission has been granted. The participant will be contacted once again by the program personnel to confirm the authorization.

Participants will be notified in writing if a regulatory authority requires us to submit EQA results.

## [10] Complaint and Appeal

#### 10.1 Complaint

In case of any dissatisfaction with the services, please contact the responsible unit, either the Center for Standardization and Product Validation or scheme coordinator. Complaints will be acknowledged and a course of action will be provided immediately or within 3 days, depending on the contact method and the level of impact. For more details, please visit: https://eqamt.mahidol.ac.th/complain/

#### 10.2 Appeal

Disagreement with the decision regarding a complaint made to the External Quality Assessment Scheme (EQAS), an appeal may be file to the Division of Legal Affairs, Mahidol University within 30 days of receiving the decision. The appeal must be submitted in writing, including the name and address of the laboratory, details of the complaint, and must be signed by the laboratory director. The appeal should be sent to:

> Division of Legal Affairs, Office of President, Mahidol University 999 Phutthamonthon Sai 4 Road Salaya, Puthamonthon, Nakhon Pathom 73170 Thailand



## **Clinical Chemistry**

Provider	Center for Standardization and Product Validation		
	Faculty of Medical Technology		
	999 Phutthamonthon Sai 4 Road		
	Salaya, Puthamonthon, Nakhon Pathom 73170		
Sample	Human serum (lyophilized, Negative for HBsAg,		
	anti-HCV, anti-HIV, HIV antigen and Syphilis)		
Test(s)	1. Albumin     9. Chloride     17. LDL-Cholesterol		
	2. ALP 10. Cholesterol 18. Magnesium		
	3. ALT (SGPT)11. CK, Total19. Phosphorus, Inorganic		
	4. Amylase, Total 12. Creatinine 20. Potassium		
	5. AST (SGOT) 13. GGT 21. Protein, Total		
	6. BUN 14. Glucose 22. Sodium		
	<ol> <li>Bilirubin, Total</li> <li>HDL-Cholesterol</li> <li>Triglycerides</li> <li>Calcium, Total</li> <li>LDH</li> <li>Uric acid</li> </ol>		
Frequency	12 trials/year (dispatch every first week of the month)		
Number of			
	1 sample		
sample(s) / trial			
Performance	Z-score calculated from robust mean and robust SD		
Evaluation	Acceptable criteria: Z-score of less than $\pm$ 3.0		
Subcontractor	Medical Diagnostic Laboratory Unit		
	Faculty of Medical Technology		
	2 Wanglang Road Bangkoknoi, Bangkok 10700		
	Activity: Homogeneity and stability tests		
Contact person	Ms. Chonnipa Pantakrud		
Phone	+66 2 441 4376 Ext. 2524 and +66 98 216 6571		
E-mail	eqacmumt@gmail.com		

## **Cardiac Markers**

Provider	Center for Standardization and Product Validation
	Faculty of Medical Technology
	999 Phutthamonthon Sai 4 Road
	Salaya, Puthamonthon, Nakhon Pathom 73170
Sample	Human serum (lyophilized, Negative for HBsAg,
	anti-HCV, anti-HIV, HIV antigen and Syphilis)
Test(s)	Test Hormones:
	1) hsTroponin I
	2) hsTroponin T
	3) NT-pro BNP
Frequency	6 trials/year
	(dispatch every 15 day of February, April, June, August,
	October and December)
Number of	2 camples
sample(s) / trial	2 samples
Performance	Z-score calculated from median and normalized IQR
Evaluation	Acceptable criteria: Z-score of less than $\pm$ 3.0
Subcontractor	International Center for Medical and Radiological Technology Faculty of
	Medical Technology, Golden Jubilee Medical Center, Mahidol University
	888 No. 6 Salaya, Phutthamonthon, Nakhon Pathom 73170 Activity: Homogeneity and stability tests
Contact person	Ms. Chonnipa Pantakrud
Phone	+66 2 441 4376 Ext. 2524 and +66 98 216 6571
E-mail	eqacmmumt@gmail.com



## Hormones

Provider	Department of Clinical Chemistry
	Faculty of Medical Technology
	999 Phutthamonthon Sai 4 Road
	Salaya, Puthamonthon, Nakhon Pathom 73170
Sample	Human serum (lyophilized, Negative for HBsAg,
	anti-HCV, anti-HIV, HIV antigen and Syphilis
Test(s)	Test Hormones:
	1) Total T3
	2) Free-T3 (FT3)
	3) Total T4
	4) Free-T4 (FT4)
	5) TSH
Frequency	6 trials/year
	(dispatch every second week of February, April, June,
	August, October and December)
Number of	2 samples
sample(s) / trial	
Performance	Z-score calculated from median and normalized IQR
Evaluation	Acceptable criteria: Z-score of less than $\pm$ 3.0
Subcontractor	Medical Diagnostic Laboratory Unit
	Faculty of Medical Technology
	2 Wanglang Road Bangkoknoi, Bangkok 10700
	Activity: Homogeneity and stability tests
Contact person	Ms. Nongkanok Khanarat
Phone	+66 2 441 4376 Ext. 2521 and +66 82 172 2663
E-mail	eqahmumt@gmail.com



## **Tumor Markers**

Drevider	Department of Clinical Chemistry
Provider	
	Faculty of Medical Technology
	999 Phutthamonthon Sai 4 Road
	Salaya, Puthamonthon, Nakhon Pathom 73170
Sample	Human serum (lyophilized, Negative for HBsAg, anti-HCV, anti-HIV,
	HIV antigen and Syphilis)
Test(s)	1) Alpha-fetoprotein (AFP)
	2) Carcinoembryonic antigen (CEA)
	3) Prostate specific antigen (PSA)
	4) Beta-human chorionic gonadotropin (beta-HCG)
	5) CA 125
	6) CA 19-9
	7) CA 15-3
Frequency	6 trials/year
	(dispatch every first week of January, March, May, July,
	September, and November)
Number of	2 samples
sample(s) / trial	
Performance	Z-score calculated from median and normalized IQR
Evaluation	Acceptable criteria: Z-score of less than $\pm$ 3.0
Subcontractor	Medical Diagnostic Laboratory Unit
	Faculty of Medical Technology
	2 Wanglang Road Bangkoknoi, Bangkok 10700
	Activity: Homogeneity and stability tsets
Contact person	Ms. Nongkanok Khanarat
Phone	+66 2 441 4376 Ext. 2521 and +66 82 172 2663
E-mail	eqatmumt@gmail.com



## Parasitology

Provider	Department of Community Medical Technology
	Faculty of Medical Technology
	999 Phutthamonthon Sai 4 Road
	Salaya, Puthamonthon, Nakhon Pathom 73170
Sample	1) Fecal sediment
	2) Digital specimen
Test(s)	1) Diagnosis of parasites in fecal sediment
	2) Diagnosis of Malaria in Digital blood film
Frequency	4 trials/year (Dispatch first week of February, May,
	August, and November)
Number of	3 samples (Fecal sediment
sample(s) / trial	2 samples and digital samples 1 sample) *
Performance	Consensus values from referee
Evaluation	Acceptable criteria: Exact match
Subcontractor	None
Contact person	Ms. Parichat Wijanphon
Phone	+66 2 441 4376 Ext. 2832 และ +66 97 079 9379
E-mail	eqap.mahidol@gmail.com

 $^{\ast}$  Note: You can request the project to evaluate specific test in the first evaluation.

## Clinical Microscopy: Complete Blood Count

Provider	Department of Clinical Microscopy
	Faculty of Medical Technology
	2 Wanglang Road Bangkoknoi, Bangkok 10700
Sample	partially stabilized whole blood
Test(s)	Complete Blood Count; CBC
	1. WBC 6. MCH
	2. RBC 7. MCHC
	3. Hb 8. RDW
	4. Hct 9. PLT
	5. MCV
Frequency	4 trials/year (Dispatch second week of February, May,
	August and November)
Number of	1 sample
sample(s) / trial	
Performance	Standard Deviation Index (SDI) calculated from group mean
Evaluation	and group SD
	Acceptable criteria: SDI of less than $\pm$ 2.0
Subcontractor	Medical Diagnostic Laboratory Unit
	Faculty of Medical Technology
	2 Wanglang Road Bangkoknoi, Bangkok 10700
	Activity: Homogeneity and stability tests
Contact person	Ms. Varat Laohaunya
Phone	+66 2 411 2258 Ext. 171
E-mail	beqam.mahidol@gmail.com



## Clinical Microscopy: Blood Film Examination

Provider	Department of Clinical Microscopy
	Faculty of Medical Technology
	2 Wanglang Road Bangkoknoi, Bangkok 10700
Sample	Blood smear (Wright-Giemsa stain)
Test(s)	Blood Film Examination
Frequency	4 trials/year (Dispatch third week of February, May,
	August and November)
Number of	1 sample
sample(s) / trial	
Performance	Consensus from participant and referee
Evaluation	Acceptable criterial: Exact match for qualitative
	parameters and consensus median for semi-quantitative
	and quantitative parameters
Subcontractor	None
Contact person	Ms. Varat Laohaunya
Phone	+66 2 411 2258 Ext. 171 and +66 82 212 2557
E-mail	heqam.mahidol@gmail.com

## Virtual Blood Film Examination

Provider	Department of Clinical Microscopy
	Faculty of Medical Technology
	2 Wanglang Road Bangkoknoi, Bangkok 10700
Sample	Digital blood smear (Wright-Giemsa)
Test(s)	Virtual blood film examination
Frequency	3 trials/year (Dispatch first week of April, July and
	October)
Number of	2 samples
sample(s) / trial	
Performance	Consensus from participant and referee
Evaluation	Acceptable criterial: Exact match for qualitative
	parameters and consensus median for semi-quantitative
	and quantitative parameters
Subcontractor	None
Contact person	Ms. Wrattya Aroontanee
Phone	+66 2 411 2258 Ext. 171 and +66 65 242 2660
E-mail	vheqam.mahidol@gmail.com

## Clinical Microscopy: Urine – Cytohematology Proficiency

Provider	Department of Clinical Microscopy
	Faculty of Medical Technology
	2 Wanglang Road Bangkoknoi, Bangkok 10700
Sample	Urine and Blood smear pictures
Test(s)	Blood Film Examination
Frequency	4 trials/year (Dispatch second week of February, May,
	August and November)
Number of	4 samples
sample(s) / trial	
Performance	Misclassification Index Score (MIS) calculated from
Evaluation	assigned values by referee or participants consensus
	(80%)
	Acceptable criteria: MIS > 2.5
Subcontractor	None
Contact person	Mr. Noppawat Tankanin
Phone	+66 2 411 2258 Ext. 171 and +66 65 242 2660
E-mail	uceqam.mahidol@gmail.com

## Clinical Immunology: Syphilis Serology

Provider	Department of Clinical Microbiology and Applied
	Technology, Faculty of Medical Technology
	999 Phutthamonthon Sai 4 Road
	Salaya, Puthamonthon, Nakhon Pathom 73170
Sample	Human serum (Negative for HBsAg, Anti HCV, HIV-Ag, Anti
	HIV, NAT (HIV/HCV) and Inactivated at 56 $^{\circ}$ C for
	30 minutes)
Test(s)	1) Non-Treponemal Test
	2) Treponemal Test
Frequency	4 trials/year (Dispatch first week of February, May,
	August and November)
Number of	4 samples
sample(s) / trial	
Performance	Misclassification Index Score (MIS) calculated from 80%
Evaluation	consensus of participant response
	Acceptable criteria: MIS > 1
Subcontractor	Medical Diagnostic Laboratory Unit
	Faculty of Medical Technology
	2 Wanglang Road Bangkoknoi, Bangkok 10700
	Activity: Sample characterization; Homogeneity and
	stability tests
Contact person	Mr. Suthee Woranuch
Phone	+66 2 441 4376 Ext. 2528 and +66 80 982 5570
E-mail	eqai.mahidol@gmail.com

## Clinical Immunology: Hepatitis B Virus Serology

Provider	Department of Clinical Microbiology and Applied
	Technology, Faculty of Medical Technology
	999 Phutthamonthon Sai 4 Road
	Salaya, Phutthamonthon, Nakhon Pathom 73170
Sample	Human serum (Negative for Treponemal Ab, Anti HCV,
	HIV-Ag, Anti HIV and Inactivated at 56 $^{\circ}$ C for 30 minutes
Test(s)	1) Hepatitis B surface antigen (HBsAg)
	2) Hepatitis B surface antibody (anti-HBs)
	3) Total Hepatitis B core antibody (anti-HBc)
	4) Hepatitis B e antigen (HBeAg)
	5) Hepatitis B e antibody (anti-HBe)
Frequency	4 trials/year (Dispatch first week of February, May,
	August and November)
Number of	4 samples
sample(s) / trial	
Performance	Qualitative:
Evaluation	Misdentification index score calculated from participants
	consensus of at least 80%
	Acceptable criteria: MIS > 1
	Semi-quantitative:
	Z-score calculated from group median and normalized IQR
	Acceptable criteria:  Z score  of less than 2
Subcontractor	Medical Diagnostic Laboratory Unit
	Faculty of Medical Technology
	2 Wanglang Road Bangkoknoi, Bangkok 10700
	Activity: Sample characterization; Homogeneity and
	stability tests
Contact person	Ms. Warisara Pratibaram
Phone	+66 2 441 4376 Ext. 2529
E-mail	eqai.mahidol@gmail.com

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## Clinical Immunology: Hepatitis C Virus Serology

Provider	Department of Clinical Microbiology and Applied
	Technology, Faculty of Medical Technology
	999 Phutthmonthon Sai 4 Road
	Salaya, Puthamonthon, Nakhon Pathom 73170
Sample	Human serum (Negative for Treponemal Ab, HIV-Ag, Anti
	HIV, HBs-Ag and Inactivated at 56°C for 30 minutes
Test(s)	1) Anti-HCV antibody (anti-HCV)
	2) HCV antigen (HCV-Ag)
Frequency	4 trials/year (Dispatch third week of February, May,
	August and November)
Number of	4 samples
sample(s) / trial	
Performance	Misclassification Index Score (MIS) calculated from 80%
Evaluation	consensus of participant response
	Acceptable criteria: MIS > 1
Subcontractor	Medical Diagnostic Laboratory Unit
	Faculty of Medical Technology
	2 Wanglang Road Bangkoknoi, Bangkok 10700
	Activity: Sample characterization; Homogeneity and
	stability tests
Contact person	Ms. Warisara Pratibaram
Phone	+66 2 441 4376 Ext. 2529
E-mail	eqaihcv.mtmu@gmail.com



## Bacteriology

Provider	Department of Clinical Microbiology and Applied
	Technology, Faculty of Medical Technology
	999 Phutthamonthon Sai 4 Road
	Salaya, Puthamonthon, Nakhon Pathom 73170
Sample	1) Bacterial smear
	2) Sputum smear
	3) Bacterial culture in semi-solid media
Test(s)	1) Gram stain
	2) Acid fast bacilli stain
	3) Bacterial identification and susceptibility testing
Frequency	3 trials/year (Dispatch third week of February, June and
	October)
Number of	2 samples
sample(s) / trial	
Performance	P-score calculated from the assigned values
Evaluation	Acceptable criteria: P < 1.96
Subcontractor	Bacteria Laboratory, 3rd Floor Microbiology Building
	Siriraj Hospital, 2 Wanglang Road Bangkok, Bangkok 10700
	Activity: Homogeneity and stability tests
Contact person	Ms. Peerada Phuechpisut
Phone	+66 61 174 7884
E-mail	eqab.mtmu@gmail.com

#### List of Contributors

#### Management Team

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## Dean Deputy Dean Head of the Department of Clinical Chemistry Head of the Department of Community Medical Technology Head of the Department of Clinical Microscopy Head of the Department of Clinical Microbiology and Applied Technology

Assistant Dean Academic Services

Acting Head of Center for Standardization and Product Validation Quality Manager Statistic and IT Manager Lecturer Deputy Quality Manager Medical Scientist Medical Scientist Medical Scientist Scientist Scientist General Administration Officer

#### EQAC

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#### EQACM

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Coordinator Technical Manager Medical Technologist Scientist Medical Scientist Medical Scientist Advisor

Technical Manager Medical Scientist Medical Scientist

Coordinator Technical Manager Co-operator Co-operator Co-operator Medical Technologist Scientist Advisor

Coordinator Technical Manager Co-operator Co-operator Medical Technologist Scientist Advisor

#### EQAP

Lecturer Dr. Prasit Mandi Asst. Prof. Dr. Rapeeporn Yaicharoen Ms. Parichat Wijanphon Lecturer Dr. Chuleeporn Phanus-umporn Asst. Prof. Dr. Apilak Worachartcheewan Asst. Prof. Dr. Apilak Worachartcheewan Asst. Prof. Dr. Somchai Boonpangrak Asst. Prof. Dr. Somchai Boonpangrak Asst. Prof. Dr. Likit Preeyanon Asst. Prof. Dr. Likit Preeyanon Lecturer Dr. Lertyot Treeratanapiboon Lecturer Dr. Nuttapat Anuwongcharoen Lecturer Dr. Pongsakotn thawornpan Ms. Suparat Yengham Asst. Prof. Choomanee Lamom

#### **B-EQAM**

Asst. Prof. Dr. Moltira Promkan Asst. Prof. Dr. Sumana Dakeng Ms. Sirilak Wiriyaukaradecha

#### H-EQAM

Assoc. Prof. Dr. Dalina Tanyong		
Asst. Prof. Dr. Sumana Dakeng		
Assoc. Prof. Dr. Aungkura Supokawej		
Asst. Prof. Vichanan Yamkamon		
Asst. Prof. Dr. Moltira Promkan		
Asst. Prof. Dr. Jitrada Phetfong		
Asst. Prof. Dr. Chutipong Sukkanon		
Asst. Prof. Dr. Podchanart Wanitchakool		
Lecturer Dr. Wasinee Kheansaard		
Lecturer Dr. Piamsiri Jiramornimit		
Ms. Varat Laohaunya		
Ms. Varapon Malison		
Asst. Prof. Dr. Sumana Mas-Oodi		

Coordinator Technical Manager Medical Technologist Co-operator Co-operator Co-operator Co-operator Co-operator Co-operator Co-operator Co-operator Advisor

Coordinator Technical Manager Advisor

Coordinator Technical Manager Co-operator Advisor

#### VH-EQAM

Asst. Prof. Dr. Jitrada Phetfong Asst. Prof. Dr. Chutipong Sukkanon Ms. Varat Laohaunya Ms. Wrattya Aroontanee Asst. Prof. Dr. Sumana Mas-oodi Assoc. Prof. Dr. Aungkura Supokawej

#### UC-EQAM

Asst. Prof. Dr. Vichanan Yamkamon Asst. Prof. Dr. Moltira Promkan Asst. Prof. Dr. Chutipong Sukkanon Mr. Noppawat Tankanjn

#### EQAI: Syphilis

Assoc. Prof. Dr. Patchanee Chootong Asst. Prof. Dr. Donporn Riyapa Mr. Suthee Woranuch Asst. Prof. Dr. Chaniya Leepiyasakulchai

EQAI: HBV Asst. Prof. Dr. Chaniya Leepiyasakulchai

Ms. Warisara Pratibaram

#### EQAI: HCV

Asst. Prof. Dr. Chaniya Leepiyasakulchai Lecturer Dr. Witchayapon Kamprom Ms. Warisara Pratibaram

#### EQAB

Asst. Prof. Dr. Rungrot CherdtrakulkiatCoordinaAssoc. Prof. Dr. Theeraphon PiachamTechnicaAssoc. Prof. Dr. Rungrot CherdtrakulkiatTechnicaAsst. Prof. Dr. Kanokwan KittiniyomTechnicaAssoc. Prof. Dr. Kanokwan KittiniyomTechnicaAssoc. Prof. Dr. Warawan EiamphungpornTechnicaAssoc. Prof. Dr. Sakda YainoyTechnicaMs. Peerada PhuechpisutCo-operaMs. Thitaree SakdachansawatCo-opera\*Note 1EQAB: Gram 2 EQAB: AFB3EQAB: Identification4EQAB: ASTAST

Coordinator Technical Manager Co-operator Co-operator Advisor Advisor

Coordinator Technical Manager Co-operator Co-operator

Coordinator Technical Manager Medical Technologist Advisor

Coordinator Technical Manager Medical Scientist

Coordinator Technical Manager Medical Scientist

Coordinator Technical Manager 1 Technical Manager 2 Technical Manager 3 Technical Manager 4 Technical Manager 4 Co-operator Co-operator

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