




กระทรวงสาธารณสุข
Department of Medical Sciences

Proficiency Testing Program

Department of Medical Sciences Ministry of Public Health Thailand

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Department of Medical Sciences



กรมวิทยาศาสตร์การแพทย์
กระทรวงสาธารณสุข



กรมวิทยาศาสตร์การแพทย์ กระทรวงสาธารณสุข

From 1942 to 2019
We celebrate our 77 years anniversary on March 12th, 2019




19th - 21st June 2019, Bangkok, THAILAND



VISION

To be a one of the third leader in medical sciences and public health in Asia by the year 2022

Values


ค่านิยมกรมวิทยาศาสตร์การแพทย์

Moral

ปฏิบัติงานด้วยความซื่อสัตย์ สุจริต มีความโปร่งใส ตรวจสอบได้

Change

ยอมรับถึงความเห็นของผู้อื่นอย่างสร้างสรรค์ ทำงานเป็นทีม



Discovery
นำความรู้มาประยุกต์ใช้ในการทำงานได้อย่างเหมาะสม

Sciences/Standards
ทำงานอย่างมีมาตรฐานตามหลักวิชาการ

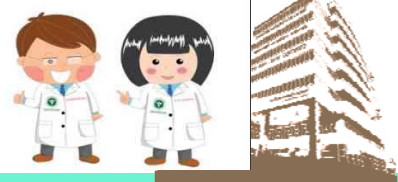
ค่านิยมกระทรวงสาธารณสุข


M Mastery
เป็นนายตนเอง

O Originality
เร่งสร้างสิ่งใหม่

P People center approach
ใส่ใจประชาชน

H Humility
ถ่อมตนอ่อนน้อม





Organization

Administrative Office Support Office

Research and Innovation

Laboratory Quality Standards and Consumer Protection


- Office of the Secretary
- Division of Planning and Technical Coordination
- Public Sector Development Group
- The Internal Audit Group
- Ethics Protection Sector
- Information Technology Center

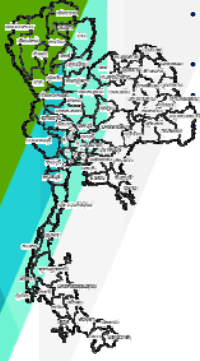
- National Institute of Health
- Medicinal Plant Research Institute
- Institute of Biological Products


- Bureau of Quality and Safety of Food
- Bureau of Drug and Narcotics substances
- Bureau of Cosmetic and Hazardous substances
- Bureau of Radiation and Medical Devices
- Bureau of Laboratory Quality Standards

Regional Medical Sciences Centers


- 15 Regional Medical Sciences Centers









ISO 9001: 2015 Certified



Function



1. Developing and standardizing system and method for analysis of health products and disease diagnosis
2. Enforcement of
 - Pathogen and Animal Toxin Act
 - Nuclear energy for peace Act
3. Research and development on medical sciences knowledge and technologies






Function




4. Providing laboratory analysis services as national reference laboratory based on consumer protection law and legal purposes.

5. Transferring of knowledge and productivity resulting from the study and analysis to community and relevant



Function



6. Promoting, supervising and providing accreditation services
(Medical testing laboratories and Point of care testing)

- ISO 15189:2012
- ISO 15190: 2003
- ISO 22870


Testing laboratories (health product; foods, drugs, biological products, cosmetics)

- ISO/IEC 17025: 2017

Reference materials producers

- ISO 17034: 2016

National GLP monitoring authority for health product






Function

7. Support and development of quality assurance to assure laboratory quality in health, biological products, medicinal plants including diseases diagnosis







DMSc PT scheme

Testing Lab (126 schemes)		Calibration Lab (3 schemes)	
Medical	85 schemes	Medical devices	2 schemes
Toxicology	4 schemes	Radiation therapy	1 scheme
Cosmetics	5 schemes		
Household products	2 schemes		
Pharmaceuticals	5 schemes		
Narcotics	3 schemes		
Food	22 schemes		

**ISO/IEC 17043 accredited
(more than 70% of schemes)**

**All providers are ISO/IEC 17025
and ISO 15189 accredited**







DMSc PT Schemes on Food Analysis
By Bureau of Quality and Safety of Food
and Regional Medical Sciences Center, (Trang)

Test	
Aflatoxin	corn and peanuts
Organochlorine pesticide residues	animal fat
Chemical analysis (total solids, total hardness, Cl ⁻ , F ⁻ , NO ₃ ⁻ , SO ₄ ²⁻)	water
Metals (As, Cd, Fe, Mn, Pb, Cu)	water
Caffeine	beverage
Synthetic colors	beverage
Benzoic acid and sorbic acid	food
Benzoic acid, sorbic acid and propionic acid	pastry
Food composition (total solids, protein, fat, lactose, sucrose)	Milk
Iodine	Table salt


ISO/IEC 17043 accredited





DMSc PT Schemes on Food Analysis
By Bureau of Quality and Safety of Food
and Regional Medical Sciences Center, (Trang)

Test	
Light filth	rice flour and alimentary pastes
Microbiological examination -Coliforms - <i>E.coli</i> - <i>Listeria monocytogenes</i> - <i>Salmonellae</i> spp. -Mesophilic aerobic plate count - <i>Staphylococcus aureus</i> -Yeast and mold	lyophilized culture beverage
Pesticide residues *	vegetables and fruits
Heavy metals and trace elements (AFRL) *	food


ISO/IEC 17043 accredited
except *






DMSc PT Schemes on Food Analysis
by Bureau of Quality and Safety of Food
as ASEAN Food Reference Laboratory (AFRL)


- 2005 – Pb, Cd in graham flour
- 2006 – Pb, Cd in mussel powder
- 2009 – Pb, Cd, As, Hg in whey powder
- 2010 – Pb, Cd, As in chilli powder
- 2013 – Pb, Cd, As, Hg, Cu, Zn, Fe in dried seafood
- 2015 – Pb, Cd, Cu, Zn, Fe in drinking water
- 2018 – Cd, As in polished rice flour
- 2019 – Pb, Cd, As, Hg in milk powder






AFRL Proficiency Testing Scheme
Heavy metals and trace elements in Food

2005




2013



Sept 2015

ASEAN-PTB Project
NIMT



Apr 2018

