



Veterinary Biologics Assay and Research Center (VBAC) was established in 1985. After the Department of Livestock Development (DLD) had reorganized structure in 2012, VBAC was under the National Institute of Animal Health (NIAH), Department of Livestock Development, Ministry of Agriculture & Cooperatives. Nowadays, plays an important role in the quality control of veterinary biological products.

#### **Routine Activities**

- Test the quality of local and imported veterinary biological products based on international standards.
- Develop the capacity of laboratory and animal facility for veterinary biological products testing to the international standard level.
- Maintain seed of virus, bacteria, mycoplasma and various cell cultures using for veterinary biological products test.
- Research and develop the method of testing.
- Providing technical information and training to the staffs and customers.

#### **Normative References**

- A) ASEAN standard for animal vaccine
- B) Manual of Diagnostic Tests and Vaccines for Terrestrial Animal
- C) ISO/IEC 17025-2005 General requirements for the competence of testing and calibration laboratories
- D) Quality management system: ISO 9001
- E) Ethical principle for using animal in scientific project
- F) Biosafety and Biosecurity System following WHO and OIE requirement











## **Special Activities**



#### CERTIFICATE OF APPROVAL

This is to certify that the

Veterinary Biologics Assay Division (VBAD) Pakchong, Thailand

has been approved by the ASEAN Member States and endorsed by the ASEAN Ministers on Agriculture and Forestry (AMAF) in accordance with the requirements of

MANUAL OF ASEAN ACCREDITATION CRITERIA FOR ANIMAL VACCINE TESTING LABORATORIES

the testing of the following animal vaccines:

- Re-accreditation: Newcastle Disease Vaccine, live
- Infectious Bronchitis Vaccine, live Duck Virus Enteritis Vaccine, live
- Newcastle Disease Vaccine, inactivated
- Infectious Bronchitis Vaccine, inactivated Egg Drop Syndrome Vaccine, inactivated Fowl Cholera Vaccine, inactivated

- Accreditation:

  i. IBD Vaccine, live

  ii. IBD Vaccine, inactivated

  iii. Marek's Disease Vaccine, live

  iv. Fowl Pox Vaccine, live

Approval Certificate No. : Date of Approval Certificate Expiry

ASEAN/ Vaccine/ 004 23 September 2014 23 September 2017

SECRETARY GENERAL OF ASEAN

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"Veterinary Biologics Assay an d Research Center (VBAC)" ha s been accredited the testing in 11 kinds of animal vaccines by the ASEAN member states and endorsed by the ASEAN Minist ers on Agriculture and Forestry (AMAF).

# Special Activities (cont.)

#### Supporting in 3 sections

- General administrative
- Biological management section
- Laboratory management section

Laboratory development in 4 sections of testing as f ollowing below,

- Viral section
- Molecular section
- Bacterial section
- Experimental animal se



# Special Activities (cont.)

# Supporting in 3 section

#### General administrative

#### 

 to lead and conduct program planning, financial matters, personnel affairs, administration and household duties.

## Biological management section



- to lead and kept documents and sample stock systematically
- to lead and conduct certification preparation
- to lead and protect veterinary biological products testing result.
- to lead and prepare report and result formulation

#### Laboratory management section



- to make program and facility for biosafety and biosecurity laboratory.
- to ensure that all equipment and instrument for testing and work properly.
- to coordinate and facilitate calibration of equipments.

# Special Activities (cont.)

Laboratory development in 4 section of testing as following below.

#### Viral section



- to conduct and approve of viral testing.
- to conduct research of veterinary biological products and test method.

#### **Bacterial section**



- to conduct and approve of bacterial testing.
- to conduct research of veterinary biological products and test method.

#### Molecular section



- to conduct and approve of molecular testing.
- to conduct research of veterinary biological products and test method.

### Experimental animal section



- to conduct and approve of experimental testing.
- to conduct research of veterinary biological products and test method.

## Staff



goverment official		10	
permanent employee		5	
government employee	$\rightarrow$	33	
outsourcing employee	$\rightarrow$	20	Total 68

# Type of sample

- 1. veterinary biological products
- 2. serum
- 3. antigen
- 4. diluent
- 5. Antiseptic products
- 6. Quail eggs











## **Method of Testing**

#### 1. Characteristic Test

- General appearance
- pH measurement
- Vacuum test
- Moisture content
- Protein content
- Formalin content



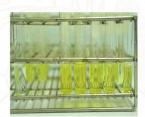












# Method of Testing (cont.)

### 2. Purity Test

- Test for bacterial contamination
- Test for fungal contamination
- Test for salmonella contamination
- Test for mycoplasma contamination
- Test for extraneous contamination











# Method of Testing (cont.)

#### 3. Safety Test

- Inactivation test
- Safety test
- Transmissibility test









# Method of Testing (cont.)

### 4. Efficacy Test

- Potency test
- Bacterial viable count test
- Virus content test
- Detection of antibody titer
- Specificity test
- Stability test



# **⊚ VIRAL SECTION ⊚**

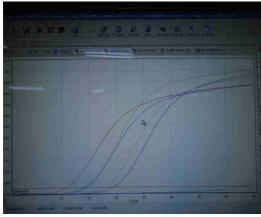


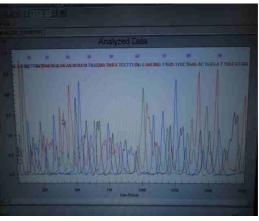
# MOLECULAR SECTION











# BACTERIAL SECTION ©



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# Thank you for Your attention