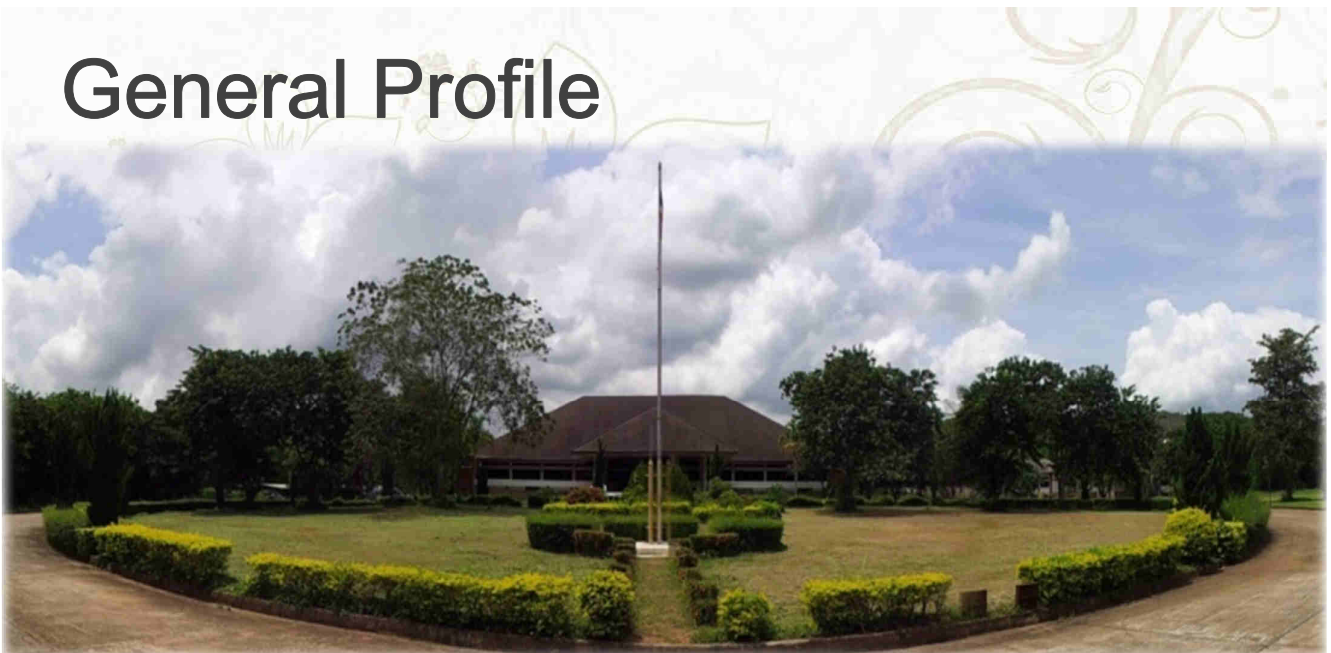


Veterinary Biologics Assay and Research Center (VBAC)

General Profile



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

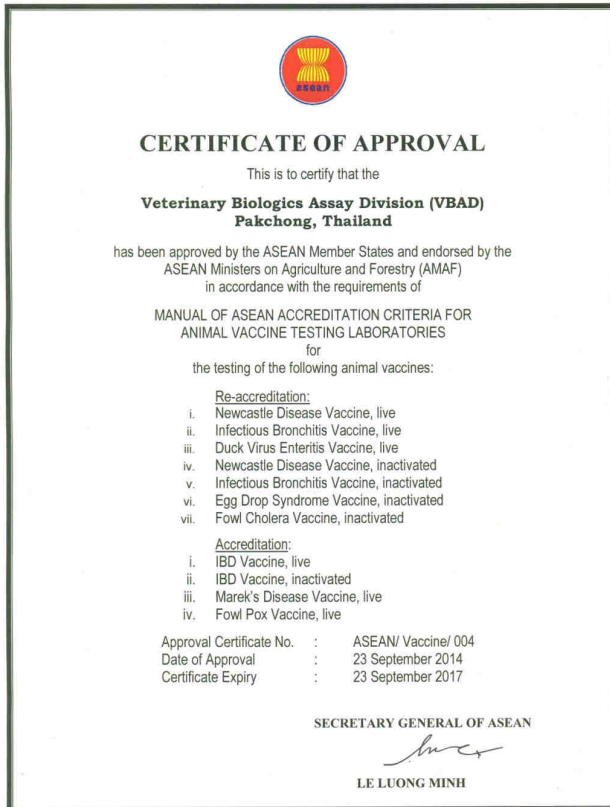
- Test the quality of local and imported veterinary biological products based on international standards.
- Develop the capacity of laboratory and animal facility for veterinary biological products testing to the international standard level.
- Maintain seed of virus, bacteria, mycoplasma and various 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



“Veterinary Biologics Assay and Research Center (VBAC)” has been accredited the testing in 11 kinds of animal vaccines by the ASEAN member states and endorsed by the ASEAN Ministers on Agriculture and Forestry (AMAF).

Special Activities (cont.)

Supporting in 3 sections

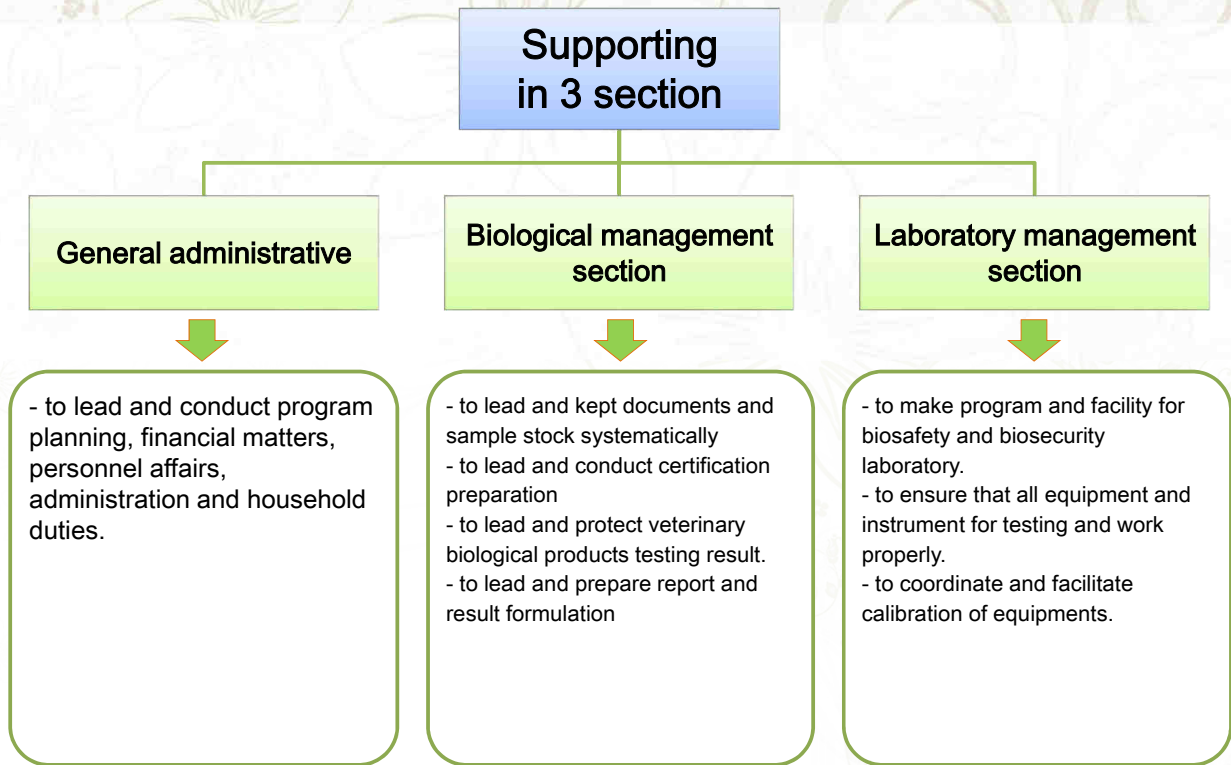
- General administrative
- Biological management section
- Laboratory management section

Laboratory development in 4 sections of testing as following below,

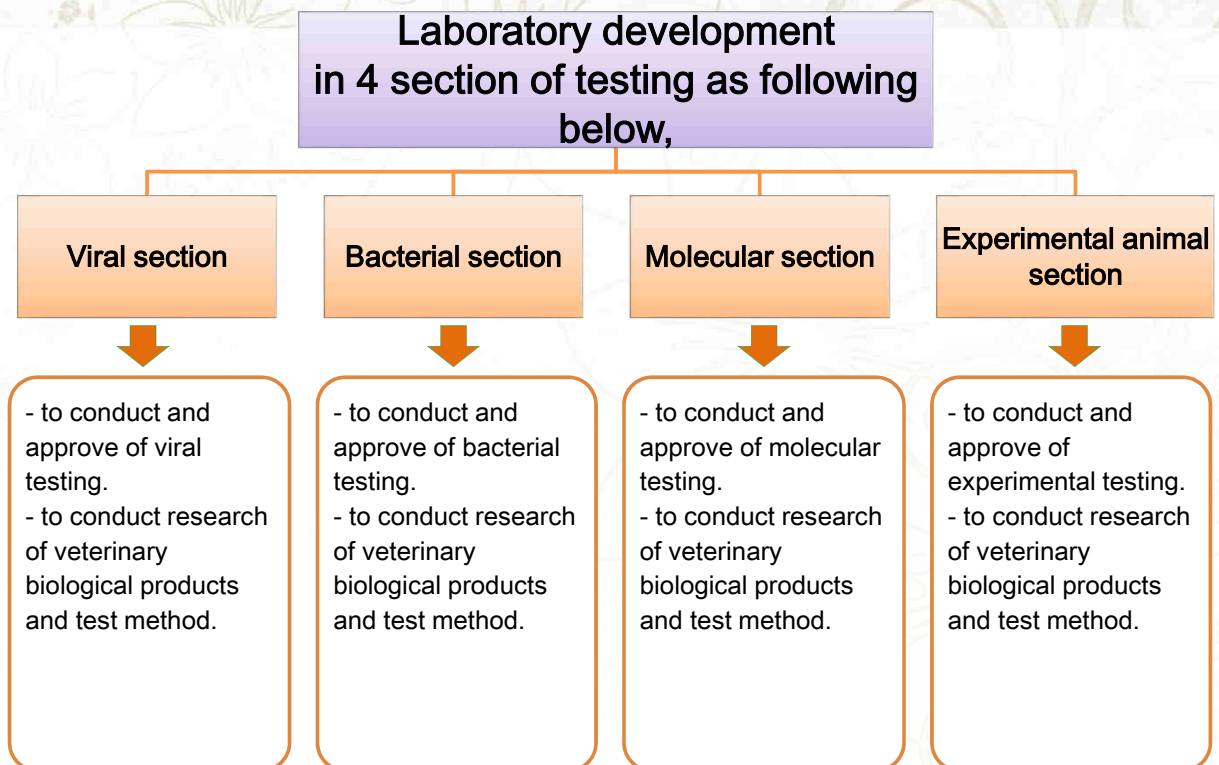
- Viral section
- Molecular section
- Bacterial section
- Experimental animal section



Special Activities (cont.)



Special Activities (cont.)



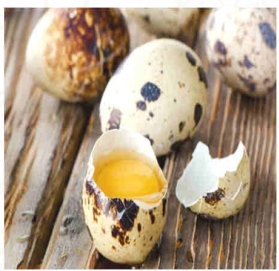
Staff



government official	10
permanent employee	5
government employee	33
outsourcing employee	20
Total 68	

Type of sample

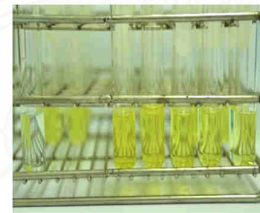
1. veterinary biological products
2. serum
3. antigen
4. diluent
5. Antiseptic products
6. Quail eggs



Method of Testing

1. Characteristic Test

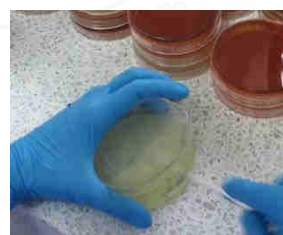
- General appearance
- pH measurement
- Vacuum test
- Moisture content
- Protein content
- Formalin content



Method of Testing (cont.)

2. Purity Test

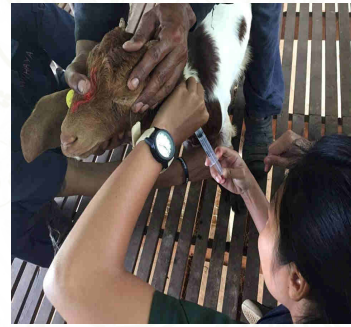
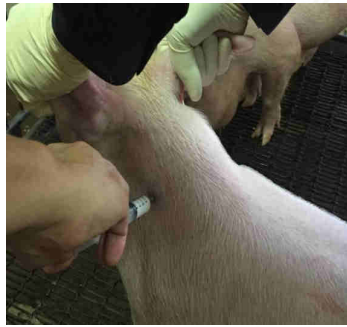
- Test for bacterial contamination
- Test for fungal contamination
- Test for salmonella contamination
- Test for mycoplasma contamination
- Test for extraneous contamination



Method of Testing (cont.)

3. Safety Test

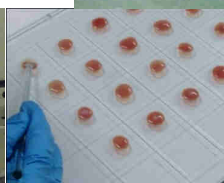
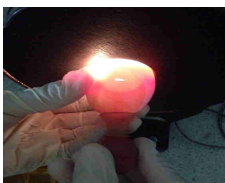
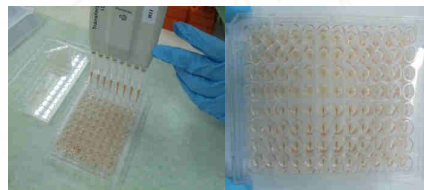
- Inactivation test
- Safety test
- Transmissibility test



Method of Testing (cont.)

4. Efficacy Test

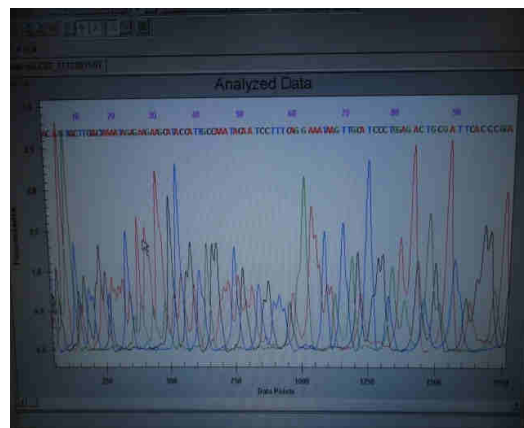
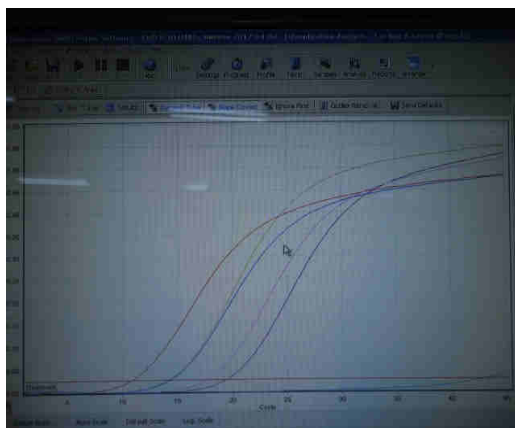
- Potency test
- Bacterial viable count test
- Virus content test
- Detection of antibody titer
- Specificity test
- Stability test



😊 VIRAL SECTION 😊



😊 MOLECULAR SECTION 😊



😊 BACTERIAL SECTION 😊



😊 EXPERIMENTAL ANIMAL SECTION 😊





**Thank you for
Your attention**