

# 動物疾病診斷試劑方法之研究與應用

## -口蹄疫抗體檢測試驗

豬瘟研究組

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### 摘要

為執行第五屆臺泰農業合作會議決議事項，在泰國國家動物衛生研究所 (National Institute of Animal Health; NIAH) 的安排下，本所四名參訪人員於 105 年 11 月 14 日至 18 日赴 NIAH、東南亞口蹄疫區域參考實驗室 (Regional reference laboratory for foot and mouth disease in South East Asia; RRL) 及獸醫研究發展中心 (Veterinary Research and Development Center; Lower Northeastern Region) (VRDC) 等機構進行實驗室技術交流。針對泰方所提供的動物試驗血清樣品進行口蹄疫結構蛋白 (SP) 與非結構蛋白 (NSP) 抗體檢測免疫色層分析測試片 (Chromatographic strip) 及口蹄疫 SP 抗體檢測酵素連結免疫吸附法 (ELISA) 等測試評估，另研習泰方常使用於例行性檢測之口蹄疫結構性蛋白的液相阻斷型 ELISA (LPBE) 方法，及診斷試劑在泰國使用之相關法規及市場等進行研議。

# **Application of a rapid diagnostic reagent in animal diseases -Detecting the antibodies against foot-and-mouth disease virus**

Tsu-Han Chen

## **Abstract**

Under the project of the fifth Taiwan Thailand agricultural cooperation, a visit to NIAH, Thailand for the 4 researchers of Animal Health Research Institute was arranged from November 14<sup>th</sup> to 18<sup>th</sup>, 2016. We evaluated the strips and ELISA for the detection of antibodies against structural protein and non-structural protein of foot-and-mouth disease virus at Regional Reference Laboratory for FMD in South East Asia, Pakchong, Thailand. We saw the FMD liquid-phase blocking ELISA (LPBE) technique which was routine performed in Thailand. In addition, we visited the institution for Veterinary Research and Development Center (Lower northeastern region). We also investigated both of relevant regulations and markets of veterinary diagnostic reagents in Thailand.