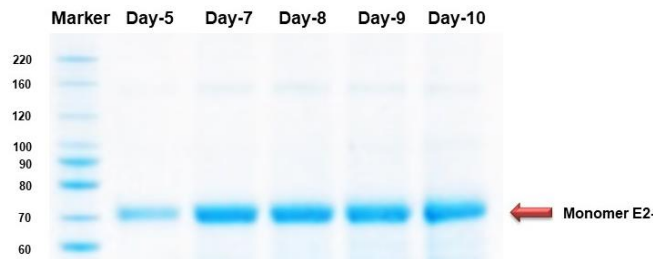
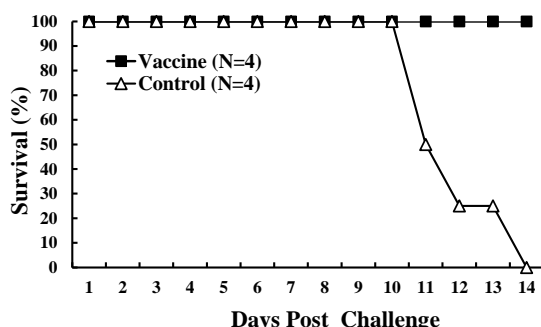


財團法人農業科技研究院及合作單位 可移轉技術簡介

技術名稱 Technology Term	豬瘟 E2 類病毒顆粒次單位疫苗 An E2 virus-like particle subunit vaccine against classical swine fever virus (CSFV)
技術發明人 Technology Representative	林俊宏、陳正文、王志鵬、謝明偉、王翔靖、郭宗鏗 Lin Jiunn-Horng, Chen Zeng-Weng, Wang Jyh-Perng, Hsieh Ming-Wei, Wang Hsiang-Ching, Kuo Zong-Keng
技術應用領域 Technology Field	動物疫苗 Animal vaccine
技術簡介 Technology Description	本技術提供一種以中國倉鼠卵巢細胞 (CHO) 生產重組豬瘟病毒 E2 抗原之方法，其具有產率高、生產容易及低成本之優勢。另亦提供 E2 疫苗之製備方法。豬隻免疫攻毒試驗結果顯示，利用本技術所生產之疫苗具良好安全性，並可有效誘發豬隻產生抗豬瘟病毒之免疫保護力。 The technology provides a novel method for production of recombinant E2 antigen by using Chinese hamster ovary cells (CHO) expression system. This method has advantages of high yield of recombinant antigen, easy production, and low cost. In addition, a vaccine preparation method is also disclosed. Efficacy test results indicated that the subunit vaccine is quite safe and can elicit protective immune response against CSFV.
技轉相關 圖/表	 <p>圖一、利用 CHO 細胞表現系統可成功大量生產重組豬瘟病毒 E2 抗原。 Fig 1. High level production of recombinant E2 antigen can be achieved by using CHO mammalian expression system.</p>  <p>圖二、免疫後豬隻可抵禦豬瘟病毒感染且全數存活。 Fig 2. The survival rate of the immunized pigs after challenge was 100%.</p>