



UPPSALA
UNIVERSITET

Molecular Biotechnology Programme

Uppsala University School of Engineering

UPTEC X 06 017	Date of issue 2006-04	
Author Jan Troeng		
Title (English) Development of rapid dipstick tests for detection of foot and mouth disease virus		
Title (Swedish)		
Abstract Foot and mouth disease virus (FMDV) is one of the most contagious animal diseases and there is a big need for rapid and accurate test methods. Four different monoclonal antibodies (mAbs) were used in a lateral chromatographic system to detect FMDV. The mAbs were immobilized on a nitrocellulose membrane, where test samples and mAb-detector particle complexes were added to analyse the mAb binding capacity. Positive samples showed a visual line due to the significant colour of the detector particle (colloidal gold or latex microspheres). The system does recognize four of the seven FMDV serotypes and the results were in agreement with both enzyme-linked immunosorbent assay (ELISA) and proximity ligation assay (PLA) experiments.		
Keywords FMDV, lateral chromatography, rapid dipstick tests, mAbs		
Supervisors Katarina Persson Svanova Biotech AB		
Scientific reviewer Malik Merza Svanova Biotech AB		
Project name	Sponsors	
Language English	Security	
ISSN 1401-2138	Classification	
Supplementary bibliographical information	Pages 34	
Biology Education Centre Box 592 S-75124 Uppsala	Biomedical Center Tel +46 (0)18 4710000	Husargatan 3 Uppsala Fax +46 (0)18 555217