



MAHIDOL UNIVERSITY

The efficacy of tested products against porcine coronavirus (PEDV).

Principle and methods

The contact time is one of important factor in reducing the number of causative agents. For this study, your product namely "Advance silver combac" was tested against porcine coronavirus (porcine epidemic diarrhea virus; PEDV) using the plaque reduction neutralization test (PRNT) as describe by Wang *et al*, 2005 (Wang S, *et al*. Assays for the assessment of neutralizing antibody activities against Severe Acute Respiratory Syndrome (SARS) associated coronavirus (SCV). *J Immunol Methods*. 2005; 301: 21-30). Briefly, PEDV and your product with concentration of Advance silver combac were mixed well. After incubation period of 24 hours, samples were collected and detected for the remaining viruses in Vero (African green monkey's kidney) cell. After incubation at 37°C for 3 days, infected cell was fixed and staining. The efficacy of product was implied by observing the plaque number of PEDV in each sample compared with positive control (no product).

Result for the inhibitory effects of product against PEDV

Product	Testing concentration	Contact time	Efficacy (%)	Log Reduction
Advance silver combac	-	24 hours.	99.67%	2.465

Type of product: Advance silver combac
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