HOKKAIDO UNIVERSITY

Title	EFFECTIVE IMMUNIZATION USING A MULTI-COMPONENT VACCINE PREPARED FROM COMMON ANTIGEN (OEP), PROTEASE AND ELASTASE TOXOIDS OF PSEUDOMONAS AERUGINOSA FOR PROTECTION AGAINST HEMORRHAGIC PNEUMONIA IN MINKS
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Hokkaido University granted the degree of Master of Veterinary Medicine to the following 22 graduates of the Graduate School of Veterinary Medicine on March, 1978.

The authors' summaries of their theses are as follows:

EFFECTIVE IMMUNIZATION USING A MULTI-COMPONENT VACCINE PREPARED FROM COMMON ANTIGEN (OEP), PROTEASE AND ELASTASE TOXOIDS OF *PSEUDOMONAS AERUGINOSA* FOR PROTECTION AGAINST HEMORRHAGIC PNEUMONIA IN MINKS

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The effect of common protective antigen (OEP) of *Pseudomonas aeruginosa* strain N 10 plus toxoids of protease and elastase from *P. aeruginosa* strains IFO 3080 and IFO 3455 for protection against enzootics of hemorrhagic pneumonia in minks was studied.

Enzootics of hemorrhagic pheumonia due to *P. aeruginosa* serotype 8 broke out from August to October 1977 in a total of 13 sheds from farms A, B, and C located in Northeastern Hokkaido. These farms were raising 7452, 2553 and 10639 minks, respectively. The mortality rate of the minks in farms A, B, and C were 11.8%, 13.0%, and 1.0%, respectively.

An inoculation of 200 μg or 100 μg of the multi-component vaccine was effective in 7 sheds, presumed to be effective in 2 sheds, not effective in 1 shed, and not determined in the remaining 3 sheds because the number of deaths were few. The time period required to reveal the effect of the vaccination was very short; in some cases, it was only a few days. Administration of the vaccine 21 days after the onset of the enzootic was also effctive.