

## SWINE HEALTH

**Title:** Evaluation of Lyophilization on efficacy of African swine fever vaccine candidate ASFV-G- $\Delta$ I177L – **NPB #20-159**

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**Scientific Abstract:** African swine fever is currently causing outbreaks throughout Asia, Europe and Africa, and recently has been reported in the Dominican Republic and Haiti. Now ASF is in close proximity to the United States. Currently there are only experimental vaccines for ASF with the most promising one being a live attenuated vaccine ASFV-G- $\Delta$ I177L, that contains a deletion of the I177L gene. The initial preparation of this vaccine done in primary swine macrophages, was stored in liquid form at  $-70^{\circ}\text{C}$ . This study was to evaluate the ability of the vaccine to be lyophilized, and the stability of the vaccine under different storage conditions.

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These research results were submitted in fulfillment of checkoff-funded research projects. This report is published directly as submitted by the project's principal investigator. This report has not been peer-reviewed.

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