

## PORK SAFETY

**Title:** Group Relationship of Salmonella ELISA Antibody Status of Grower-Finisher Hogs to Fecal Shedding Detectable by Culture - **NPB #98-149.**

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### ABSTRACT:

From July 1998 through November 1999, 15 groups of 30 pigs (450 total) were randomly picked (each total group size = 185 pigs), double ear-tagged, individually fecal and blood sampled, and placed into one of 5 separate finishing facilities (3 groups per facility) within a vertically integrated pork production system. Fecal and blood sampling was continued on individually identified animals at approximate monthly intervals for 3 or 4 times with the last pre-harvest samples being collected 2 to 18 days prior to slaughter (9 day average). All groups of hogs remained on full feed until loaded for shipment. Transportation time and methods, separation of hog groups during transit and at the packer, and lairage were approximately the same for all groups. Ileocecal lymph nodes and cecal/rectal combined fecal samples were collected at slaughter from individually identified hogs. Sera was tested by the MIX-ELISA test for Salmonella antibodies and fecal and cecal/rectal fecal samples were cultured for Salmonella, serogrouped, and sent to NVSL for serotyping.

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