Influenza A in Swine
Testing Algorithm

Effective as of: September 1, 2018

Not funded by USDA

Stop

CT > 25

Matrix PCR
Complete within 2 business
days of receipt

Lung tissue, Nasal Swabs, Nasal wipes

Oral Fluids

Matrix PCR
Complete within 2 business
days of receipt

Stop

CT > 20

Only one (1) sample may be subtyped at USDA expense. Choose lung/nasal swab sample over an oral fluid sample for this reimbursement if both have the lowest CT value. Remaining samples may be subtyped at submitter’s expense.

Funded by USDA

Please refer to the instructions regarding unusual results and alternate protocols.

CT < 25

Continue to Subtyping PCR
Select 1 sample with lowest CT value (lung/nasal swab samples preferred) to Subtype Complete within 1 business day of Matrix PCR results

Subtype identified

No subtype identified

Mixed subtype identified

Stop

Mixed subtype identified

Stop

Perform VI on sample. Complete VI within 3 weeks of sample receipt. Send aliquot to NVSL. Ship to the repository on 1st and 3rd Tuesdays of month.

Sequence virus isolates for H and N gene. Complete within 3 weeks of obtaining virus.

Deposit sequence in GeneBank within 1 week of completing sequencing.

Use standardized naming convention:
GenBank Accession number and virus name.
Virus name = A/Swine/State/NAHLN Barcode/Year of collection

If subtyping was conducted on original material, attempt VI then repeat subtyping on the isolate. Contact NVSL if unable to obtain virus or sequencing not successful.