

OSHAB Guidelines for Declaring Presumed Negative PED Site Status

Use of this guideline will help industry track progress on containment and elimination of PED. Sites which successfully eliminate PED will be given a “Presumed Negative Status” within the OSHAB ARC&E Program. Consulting veterinarian notification based on clinical presentation and diagnostic testing is required to trigger a change in status for a site. Adherence to these guidelines improves confidence that no viable PED virus is present on the site.

Guidelines will be reviewed and updated as we learn more.

Site Type	Sampling Recommendations	Criteria	Theoretic Prevalence and Confidence
A Farrowing to wean sites	<ul style="list-style-type: none"> - Swiffer or swab samples of creeps/dunging areas by PEDV PCR - target any farrowing crates with diarrhea - 4 to 6 swiffer samples* with 1 swiffer per 8-12 crates <p>OR</p> <ul style="list-style-type: none"> - 30 swabs with 1 swab per crate pooled 5 to 1 	<ul style="list-style-type: none"> - 10 weeks or greater post-infection - Absence of clinical signs – no untested clinical diarrhea in suckling pigs - Test a minimum of 3 consecutive sampling events over a 3 to 6 six week time period <p>NOTE: alternative is depopulated herd with audited clean-up</p>	<p><u>Assumptions:</u></p> <ul style="list-style-type: none"> - PED will be detected 19 out of 20 sampling times where prevalence of infected crates at a minimum level of 10%. - Test sensitivity is 98% and specificity is 100%. - Pooling will not decrease analytical sensitivity.
B Farrow to feeder or Farrow to finish	<ul style="list-style-type: none"> - If farrow to feeder, test 12 rope saliva samples by PEDV PCR targeting nursery - if farrow to finish, test 6 nursery pens and 6 finisher pens 	<ul style="list-style-type: none"> - 10 weeks or greater post-infection - Absence of clinical signs – no untested clinical diarrhea in all age groups of pigs on site - Test a minimum of 2 consecutive sampling events with a minimum of 3 weeks between sampling events <p>NOTE: alternative is depopulated herd with audited clean-up</p>	<p><u>Assumptions:</u></p> <ul style="list-style-type: none"> - PED will be detected 19 out of 20 sampling times where prevalence of positive pigs at a minimum level of 5%. - Test sensitivity is 98% and specificity is 100%. - 5 pigs contribute to chewing of 1 rope.

C All in all out Nursery or Finisher Known Negative Source	<ul style="list-style-type: none"> - Test a minimum of 6 rope saliva samples by PEDV PCR 	<ul style="list-style-type: none"> - Absence of clinical signs - Known negative pigs placed in facility - Sample 3 to 6 weeks post placement 	<u>Assumptions:</u> <ul style="list-style-type: none"> - PED will be detected 19 out of 20 sampling times where prevalence of positive pigs at a minimum level of 10%. - Test sensitivity is 98% and specificity is 100%. - 5 pigs contribute to chewing of 1 rope.
D All in all out Nursery or Finisher Presumed Negative Source	<ul style="list-style-type: none"> - Test a minimum of 6 rope saliva samples by PEDV PCR 	<ul style="list-style-type: none"> - Absence of clinical signs - Sample 3 to 6 weeks post placement 	<u>Assumptions:</u> <ul style="list-style-type: none"> - PED will be detected 19 out of 20 sampling times where prevalence of positive pigs at a minimum level of 10%. - Test sensitivity is 98% and specificity is 100%. - 5 pigs contribute to chewing of 1 rope.
E Continuous flow nursery or finisher Presumed Negative Source	<ul style="list-style-type: none"> - Test 6 rope saliva samples spread across all age groups by PEDV PCR OR - 30 swabs with one swab per pen pooled 5 to 1 	<ul style="list-style-type: none"> - Presumed positive status until the source is declared presumed negative - Absence of clinical signs - Test a minimum of 2 consecutive sampling events over a 3 to 6 six week time period - 	<u>Assumptions:</u> <ul style="list-style-type: none"> - PED will be detected 19 out of 20 sampling times where prevalence of positive pigs at a minimum level of 10%. - Test sensitivity is 98% and specificity is 100%. - 5 pigs contribute to chewing of 1 rope.

In all cases, sampling recommendations assume no clinical signs. If diarrhea is present, sample pigs showing clinical signs/scours in pens. Note these guidelines provide minimum sampling recommendations; modifications to increase confidence are at the discretion of the veterinarian based on assessment of facility size and flow.

Note: in some cases, PEDV positive pig flows may produce negative finishers. In order to allow reintegration of these herds, it is the OSHAB recommendation that processors request a letter from the veterinarian of record indicating that this shipment of pigs has been tested for PEDV by PCR and has been found to be negative for PEDV. The recommended testing is 6 rope saliva samples per barn for PEDV by PCR. Testing should be done in the absence of clinical signs in the finisher phase at 1 to 2 weeks before the first shipment out of that barn.

Confirmed PED Negative Status

Site Type: Breeding Herd (Farrow to wean, Farrow to feeder or Farrow to finish), AI-AO Nursery only, AI-AO Finish only, Continuous flow nursery or finisher

Confirmed Negative PEDV/PDCoV Status : The Site has had no clinical or diagnostic evidence of PED/PDCoV for at least 6 months after the Presumed Negative status date. Based on veterinary judgment, a repeat of the testing criteria from the OSHAB Presumed Negative PED site status document may be done.