



ADM Animal Nutrition™  
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## **Addressing Concerns - for African Swine Fever Virus (ASFV)**

Recently, there have been concerns within the swine industry regarding recent ASFV outbreaks in China, Romania and Ukraine. With this highly transmissible disease comes growing concerns the virus could enter the U.S., potentially resulting in major negative impacts on swine exports. ADM continually works to maintain a secure supply chain, sourcing quality ingredients. Here are just a few considerations when managing risks to product integrity and health.

### **I. ASFV Persistence in the Environment**

ASFV is a highly stable and temperature resistant virus. Heat-inactivation of ASFV requires 56<sup>o</sup>C for 70 minutes or 60<sup>o</sup>C for 20 minutes. ASFV can survive environments where pH levels are between 3.6 and 11.5 (USDA, 2018). Various disinfectants have shown to be effective. Find a list of these at the [U.S. Department of Agriculture website](#). Careful management of the time materials are in transit and in storage are key.

### **II. Source Tracking**

ADM takes pride in our ability to source quality ingredients globally from reputable sources, knowing that businesses we work with adhere to ADM's stringent standards. ADM has been and will continue to be vigilant in taking steps to protect our industry. We work with suppliers to provide biosecurity practices addressing the quality and sanitary status of the materials they provide us. Our sourcing practices have been developed through decades of experience, with a focus on risk mitigation regarding quality and sanitary status.

### **III. Biosecurity**

Maintaining strict standards for supply chain biosecurity requires collaboration, communication, an accountability. ADM Animal Nutrition continues to evaluate and work closely with our suppliers and manufactures of materials sourced from China. Vendors have been instructed to provide relevant documentation on their processes for mitigating risk of contamination by ASFV. Whether feeds and ingredients come by vessel, rail, road, or air, we monitor where they have been along the way.

ADM is monitoring the developing work around adding chemical mitigation agents to feeds in order to provide further sanitary assurances against pathogen transmission. We will continue to monitor these technology options and the policies surrounding their use. Should regulatory agencies provide clearance for using these compounds, we hope to stand ready to implement use of these in our products further mitigating risk.

#### **ADM verifies with vendors to provide the following information:**

- Source and specifications of raw and adjuvant materials used in production
- Manufacturing processes & controls (include time & temperature)
- Composition of the product
- Product analysis (monitoring testing/frequency)



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- Packaging Control
- Logistic (Sanitary Transportation)

### **Other Supply Chain Biosecurity Measures:**

- Shipping from China:
  - Our Approved Supplier Program, is a multi-step process that requires foreign sourced ingredients come from manufacturers that are certified to a GFSI schemed audit.
  - Prior to leaving China, containers are cleaned, sanitized, inspected and sealed for security purposes, sanitary conditions, and intact conditions before being loaded. From there, containers are off-loaded and sent via the carrier to the requested destination.
  - Materials are shipped on new and/or heat treated pallets. ADM continues to receive verifications by vendors with regard to their supply chain biosecurity.
  - Typically takes 45-60 days to arrive to US ports.
  - Upon receiving containers, ADM will not accept any shipments where the seal has been compromised. ADM Animal Nutrition participates in the Customs-Trade Partnership Against Terrorism (C-TPAT), a voluntary supply-chain security program led by U.S. Customs and Border Protection. Prior to materials arriving at the port, we are provided with the container number as well as the seal number. We then verify that information when the material arrives at the receiving facility prior to unloading. We are notified and given the new seal number if a seal has been changed after an FDA/Port inspection.
- Inventory:
  - Vitamins sourced from China are shipped to the US as concentrated materials, directly from our manufacturer/suppliers. ADM then blends final premixes using these concentrated forms at our premix facilities located in the US, using blending materials sourced in the US from verified suppliers.
  - In addition to our current process of lot tracking ingredients, last in and last out inventory controls, and other inventory management procedures, ADM is currently testing system capabilities to implement inventory management controls allowing us to document inventory from China, from the time the container is sealed until it is used in premix or distributed for further feed manufacturing. This capability would allow ADM to document the desired time period the product has been out of China before it is used in our blending or distribution.

We will continue working hard for you. In the meantime, below we've provided links to industry information regarding ASFV. If you have questions regarding where your products are coming from, please contact your ADM rep and we will be glad to provide more information.

Thank you



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### **References & Resource Links:**

[AFIA Resources for African Swine Fever](#) (requires membership login)

[Center for Food Security and Public Health](#) – Disease information, Fact Sheets, Presentations, and more

[Secure Pork Supply \(SPS\)](#) – Guidelines, Response Strategies, and more

U.S. Department of Agriculture (National Preparedness and Incident Coordination, Veterinary Services, Animal and Plant Health Inspection Service). (2018). Foreign Animal Disease Preparedness and Response Plan (FAD PReP) Standard Operating Procedures (SOPs). Retrieved from

[https://www.aphis.usda.gov/animal\\_health/emergency\\_management/downloads/sop/sop\\_asf\\_e-e.pdf](https://www.aphis.usda.gov/animal_health/emergency_management/downloads/sop/sop_asf_e-e.pdf)