

## Certificate of Analysis

**PRODUCT:** Pig Serum, Trace-Hemolyzed, Sterile, Heat-Inactivated**CODE NO:** 39527**LOT NO:** 23540**DATE OF  
MANUFACTURE:** August 23, 2018**DATE OF EXPIRATION:** July 23, 2021**ORIGIN:** U.S.A.**EU 142/2011:** AR TEC 0007**STORAGE:** -10 °C or below**EU REQUIREMENTS:** Product meets European Union requirements for production of technical blood products.**HEALTHY  
ANIMAL  
STATEMENT:** This product is made from raw materials that were collected from animals and found free from obvious signs of infectious and contagious disease.**PROCEDURE:** Whole blood is collected from healthy, mature pigs (mixed breed, either sex) within the contiguous 48 states only from USDA inspected facilities where the animals receive ante and post mortem inspection and were found free of contagious disease at the time of slaughter, refrigerated within 6 hours, processed within 24 hours, and frozen. The serum is later thawed, pooled, passed through a 0.22 micron filter, bottled, and returned to -10 °C or below. The bottled sterile serum is then thawed at 2 – 8 °C and heat inactivated at 56 °C for 30 minutes. The heat-inactivated serum is then stored at -10 °C or below.

| ASSAYS: | Required Assays | Specification        | Result   |
|---------|-----------------|----------------------|----------|
|         | Total Protein:  | For information only | 7.8 g/dL |
|         | Hemoglobin:     | For information only | 20 mg/dL |
|         | pH:             | For information only | 7.4      |

\*Sterility was not compromised during heat inactivation.

### QUALITY ASSURANCE

Quality Control Release Date: September 12, 2018

Doug Stocker  
Quality Systems Technician**Meets or exceeds specifications** ☒**Does not meet specifications** ☐**SUITABLE FOR FURTHER MANUFACTURE OR RESEARCH PURPOSES**