

## Certificate of Analysis

**PRODUCT:** Pig Serum, Trace-Hemolyzed, Sterile**CODE NO:** 39526**LOT NO:** 06839**DATE OF  
MANUFACTURE:** March 9, 2017**ORIGIN:** U.S.A.**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 infectious and contagious disease.**PROCEDURE:** Whole blood is collected from mature, healthy swine (either sex and mixed breeds) at the time of slaughter, refrigerated within 6 hours, processed within 24 hours and frozen at or below -10 °C. The serum is thawed, pooled, passed through a 0.22 micron filter, bottled and stored at or below -10 °C.

| ASSAYS: | Required Assays | Specification         | Result                        |
|---------|-----------------|-----------------------|-------------------------------|
|         | Total Protein:  | 7.0 – 10.0 g/dL       | 8.1 g/dL                      |
|         | Hemoglobin:     | 20 ≤ 50 mg/dL         | 25 mg/dL                      |
|         | pH:             | 7.0 – 8.5             | 7.4                           |
|         | Sterility:      | No growth at 14 days. | Passed. No growth at 14 days. |

**QUALITY ASSURANCE**

Quality Control Release Date: April 4, 2017

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