

## Certificate of Analysis

**PRODUCT:** Goat Serum, Sterile, Non-Hemolyzed, Delipidized**CODE NO:** 32117**LOT NO:** 03040**DATE OF  
MANUFACTURE:** January 30, 2018**STORAGE:** At -10 °C or below**ORIGIN:** U.S.A.**EU 142/2011:** AR TEC 0007**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 found free from obvious signs of infectious and contagious disease.**PROCEDURE:** Whole blood is collected from healthy, sexually mature goats (any breed), refrigerated within 6 hours, processed within 24 hours and frozen. The serum is then thawed in a water bath, pooled and processed to remove lipids. Delipidized serum is passed through a 0.22-micron filter, bottled, and stored at -20 °C.**ASSAYS:**

| Required Assays | Specification        | Result                       |
|-----------------|----------------------|------------------------------|
| Total Protein:  | 6.0 – 8.0 g/dL       | 6.0 g/dL                     |
| Hemoglobin:     | ≤ 20 mg/dL           | 9 mg/dL                      |
| pH:             | 7.0 – 8.5            | 7.8                          |
| Sterility:      | No growth at 14 days | Passed. No growth at 14 days |

**QUALITY ASSURANCE**

Quality Control Release Date: February 16, 2018

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