

Certificate of Analysis

PRODUCT: Bovine Gamma Globulin**CODE NO:** 27005**LOT NO:** 34539**DATE OF
MANUFACTURE:** December 11, 2017**STORAGE:** 2-8 °C**ORIGIN:** U.S.A.**EU 142/2011:** AR TEC 0007**RECONSTITUTION:** Reconstitute in at least 0.2% NaCl solution.**EU REQUIREMENTS:** Product meets European Union requirements for treated technical blood products:
pH is lowered to ≤ 5 for a minimum of 2 hours.**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:** Bovine gamma globulin is purified from normal bovine serum or plasma collected
in a USDA certified facility within the contiguous 48 states of the United States
(documentation is on file). The processing of serum/plasma into gamma globulin
was achieved exclusively at Pel-Freez Biologicals facilities using a combination of
existing methods developed in our laboratory.**ASSAYS:**

Required Assays	Specification	Result
Serum Protein Electrophoresis	$\geq 98\%$	$> 99\%$
Protein by Weight, O.D. 280 nm $E^{1\%}_{1\text{cm}}$ 1.39	$\geq 85\%$	86%
Moisture Content	For information only	1.81%

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**