

Biologicals Division

219 North Arkansas St.  
205 North Arkansas  
Rogers, Arkansas 72756

(479) 636-4361 Fax 479-636-3562  
(800) 643-3426

**Pel-Freez®**

**Analysis Certificate/Origin**

**PRODUCT:** Bovine Gamma Globulin

**CODE NO:** 27005

**LOT NO:** 26536

**DATE OF  
MANUFACTURE:** September 22, 2014

**ORIGIN:** USA

**STORAGE:** 2-8°C

**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  $\leq 5$  for a minimum of 2 hours.

**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:** This lot of Bovine Gamma Globulins contains 99% gamma globulin, which is less than 5% impurities as determined by serum protein electrophoresis (percent of the total protein present).

Protein by Weight - O.D. 280 nm  $E^{1\%} = 1.39 = 89\%$ . Residual salts, lipids, etc. comprise the rest of the weight.

Moisture Content: 1.86% (FIO)

**QUALITY ASSURANCE**

**Product Released on: October 13, 2014**



Sarah Graves  
Quality Systems Technician

Meets or exceeds specifications ✓  
Does not meet or exceed specifications

**FOR FURTHER MANUFACTURE OR RESEARCH PURPOSES**