

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: 30135-B

**DATE OF
MANUFACTURE:** 28 Oct 2013

ORIGIN: USA

STORAGE: 2-8 °C

EXPIRATION: Suggested retest after 3 years.

EU REQUIREMENTS: Product meets EU requirements for treated technical blood products: pH is lowered to ≤ 5 for a minimum of 2 hours.

RECONSTITUTION: Reconstitute in at least 0.2% NaCl solution.

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 100% 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 $E^{1\%} = 1.39 = 88\%$. Residual salts, lipids, etc. comprise the rest of the weight.

Immunoelectrophoresis: At 10 mg/ml, the precipitin pattern observed was characteristic of bovine serum when tested with anti-whole bovine serum. The predominant band was in the IgG region.

Moisture Content: 1.16% (FIO)

QUALITY ASSURANCE

Product Released on: 15 Jan 2014



Sarah Graves
Quality Systems Technician

Meets or exceeds specifications✓

Does not meet or exceed specifications

FOR FURTHER MANUFACTURE OR RESEARCH PURPOSES