

Biologicals Division

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Pel-Freez®

Analysis Certificate/Origin

PRODUCT: Bovine Gamma Globulin

CODE NO: 27005

LOT NO: 29931-A

**DATE OF
MANUFACTURE:** October 26, 2009

ORIGIN: USA

STORAGE: 2-8°C

EXPIRATION: 3 years from manufacture date. Suggested retest after 3 years.

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 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 $E^{1\%}_{1\text{cm}}$ = 1.39 = 95%. Residual salts, lipids, etc. comprise the rest of the weight.

Negative: Blue Tongue Virus (PCR)

Negative: VSV Indiana (Serology)

Negative: VSV New Jersey (Serology)

Moisture: 1.47% (FIO)

Immuno-electrophoresis: 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.

QUALITY ASSURANCE

Product Released on: December 21, 2009

***Amended 12/28/09 by P. Stewart – added DOM & IEP**

Meets or exceeds specifications ✓

Does not meet or exceed specifications

FOR FURTHER MANUFACTURE OR RESEARCH PURPOSES

