

Biologicals Division

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Pel-Freez[®]

Analysis Certificate

PRODUCT: Bovine Gamma Globulin

CODE NO: 27025

LOT NO: 26834B

STORAGE: 2-8°C

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 98.8 % gamma globulin, which are less than 5% impurities as determined by serum protein electrophoresis (percent of the total protein present).
- Protein by Weight - O.D. 280 nm $E^{1\%} = 87\%$. 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.

Product meets European Union requirements for treated technical blood products: Treatment by Acidification. Product pH lowered to $< \text{or} = 5$ for minimum time of 2 hours.

QUALITY ASSURANCE

Quality Control Release Date: November 9, 2012

Meets or exceeds specifications ✓

Does not meet specifications



FOR FURTHER MANUFACTURE OR RESEARCH PURPOSES