

Biologicals Division

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Pel-Freez®

Analysis Certificate/Origin

PRODUCT: Bovine Gamma Globulin

CODE NO: 27005

LOT NO: 22336

**DATE OF
MANUFACTURE:** August 11, 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 ≤ 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 $E^{1\%} = 1.39 = 86\%$. Residual salts, lipids, etc. comprise the rest of the weight.

Moisture Content: 2.38% (FIO)

QUALITY ASSURANCE

Product Released on: September 9, 2014



Sarah Graves
Quality Systems Technician

Meets or exceeds specifications ✓
Does not meet or exceed specifications

FOR FURTHER MANUFACTURE OR RESEARCH PURPOSES