

Biologicals Division

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Pel-Freez[®]

Analysis Certificate

PRODUCT: Horse Serum, Donor Herd, Non-Hemolyzed, Sterile, Heat Inactivated

CODE NO: 39328

LOT NO: 10136

**DATE OF
MANUFACTURE:** April 11, 2014

**EU
REQUIREMENTS:** Product meets European Union requirements for production of technical blood (Equidae) untreated product.

STORAGE: -20 °C

PROCEDURE: Blood is aseptically collected from the donor herd horses in a USDA inspected facility, (maintained on antibiotic-free diets and controlled under the observation of qualified professional personnel) using a closed system method in a designated bleeding lab. The blood is refrigerated within 8 hours of collection and processed within 48 hours prior to storage at -10 °C or below. The serum is thawed and passed through a 0.22 micron filter, bottled and frozen. The sterile serum is later thawed, heat inactivated at 56°C for 30 minutes, and returned to -20 °C.

APPEARANCE: Straw color

ASSAYS: Total Protein 6.71 g/dl
Hemoglobin 0.38 mg/dl
pH 7.82

Sterility was not compromised during heat inactivation process.

QUALITY ASSURANCE

Quality Control Release Date: April 29, 2014



Sarah Graves
Quality Systems Technician

Meets or exceeds specifications ✓
Does not meet specifications

SUITABLE FOR FURTHER MANUFACTURE OR RESEARCH PURPOSES