

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: 21236

**DATE OF
MANUFACTURE:** July 31, 2014

EU REQUIREMENTS: Product meets European Union requirements for production of technical blood (Equidae) untreated product. Product is derived from blood collected in the USA at facility number MO-TEC-0001.

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 6.3 g/dL
Hemoglobin 0.38 mg/dL
pH 8.08

Sterility was not compromised during heat inactivation process.

QUALITY ASSURANCE

Quality Control Release Date: September 3, 2014



Sarah Graves
Quality Systems Technician

Meets or exceeds specifications ✓

SUITABLE FOR FURTHER MANUFACTURE OR RESEARCH PURPOSES