

**CERTIFICATE OF ANALYSIS / ORIGIN**

<b>γ-Globulin bovine</b>	<b>Cat.No. :</b>	<b>22550</b>
<b>lyophil.</b>	<b>Contr.No.:</b>	<b>130540</b>

Parameter	Method	Specification	Result
<b>Protein (%)</b> (protein factor 6.25)	Nitrogen Analyzer dry weight basis	96 – 100	99
<b>Purity (%)</b> (γ-globulins, 7 % solution)	Cellulose Acetate Electrophoresis	96 – 100	100
<b>pH</b>	7 % solution	6.8 – 7.2	7.2
<b>Sodium (mg/g)</b>	Flame Photometer	0 – 10.0	8.0
<b>Chloride (mg/g)</b>	Coulometric Titrator	0 – 24.0	10.1
<b>Moisture (%)</b>	KF	0 – 5.0	< 5.0
<b>Minimum shelf life</b>			11/ 2015
<b>Storage (°C)</b>			+2 to +8

The product has been subjected to a pH 5 or lower for a period of at least 3 hours.

It is certified that the product is derived from bovine blood collected from US sourced cattle slaughtered at a USDA licensed establishment located in the USA. The bovine plasma/serum was derived from US sourced animals under 30 months of age that were not stunned using a penetrating device that injects air into the cranial cavity. During the collection process appropriate precautions were taken not to contaminate the serum/plasma with specified risk materials (SRM) as defined by the USDA. The material does not contain, nor is derived from SRM as defined in Commission decision 999/2001. All cattle received ante- and post mortem health inspection under a veterinarian's supervision at the abattoir and were apparently free from infectious and contagious diseases and injurious parasites. Ruminant materials used in the manufacture of this product are not originated from BSE related herds. The record of each raw material collection is incorporated into the manufacturing records and veterinary certificates are maintained on file at the manufacturing site. At the time of manufacture of this lot of material, the US is classified as a GBRIII country and is free from Rinderpest, foot-and-mouth disease, and contagious bovine pleuropneumonia.

<b>We do not guarantee that the product can be used for a special application.</b> <b>This document does not release you from performing the standard control upon receipt of incoming goods.</b>
--

**SERVA Electrophoresis GmbH**  
**Quality Control**

**Printing date:** 01.09.2014

Dipl.-Ing. (FH) Bernhard Göckel

Daniela Lux-Helmstetter

This report has been computer generated and does not contain a signature.