

# CERTIFICATE OF ANALYSIS / ORIGIN

**Albumin bovine Fraction V**

Very Low Endotoxin, Fatty Acid Free, lyophil.

**Cat.No. : 47299**

**Contr.No.: 100873**

Parameter	Method	Specification	Result
<b>Molecular weight</b>		ca. 67 000	
<b>Appearance</b>		white lyophilisate	corresponds
<b>Protein (%)</b> (protein factor 6.22)	Nitrogen Analyzer dry weight basis	96.0 – 100.0	98
<b>Purity (%)</b> (albumin, 7% solution)	Cellulose Acetate Electrophoresis	98 – 100	100
<b>pH</b>	7% solution	6.8 – 7.2	7.0
<b>Sodium (mg/g)</b>	Flame Photometer	0 – 10.0	3.2
<b>Chloride (mg/g)</b>	Coulometric Titrator	0 – 6.0	2.0
<b>Total lipids (mg/g)</b>	Gravimetric Analysis	0 – 2.0	0.7
<b>Free fatty acids (mg/g)</b>	Chromatography	0 – 0.2	< 0.1
<b>Esterified Fatty Acids (mg/g)</b>	Chromatography	0 – 1.0	< 0.1
<b>IgG</b>	Radialimmunodiffusion	not detectable	not detectable
<b>Endotoxin (EU/mg)</b>	Limulus Amebocyte Lysate	0 – 2.0	0.2
<b>Moisture (%)</b>	KF	0 – 5.0	< 5.0
<b>Minimum shelf life</b>			12/ 2014
<b>Storage (°C)</b>			-15 to -25

The product has been subjected to a heat treatment at a temperature of at least 65°C for a period of at least 3 hours and subjected to 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.

Each lot. is tested for mycoplasma by the method of Barile and Kern and certified that none was detected. Each lot is also tested for the bovine viruses BVD, IBR, PI3, Adeno I & V, Rabies virus, Bluetongue virus, Parvo and Reo by the Code of Federal Regulations 9 CFR 113 and certified that none was detected.

**We do not guarantee that the product can be used for a special application.**

**This document does not release you from performing the standard control upon receipt of incoming goods.**

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

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Dipl.-Ing. (FH) Bernhard Göckel

Daniela Lux-Helmstetter

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