

**CERTIFICATE OF ANALYSIS / ORIGIN**

<b>Albumin bovine Fraction V</b>	<b>Cat.No. : 11924</b>
receptor grade, lyophil.	<b>Contr.No.: 180880</b>

Parameter	Method	Specification	Result
<b>Molecular weight</b>		ca. 67 000	
<b>Protein (%)</b> (protein factor 6.22)	Nitrogen Analyzer dry weight basis	98 – 100	99
<b>Purity (%)</b> (albumin, 7 % solution)	Cellulose Acetate Electrophoresis	98 – 100	100
<b>pH</b>	7 % solution	6.8 – 7.2	7.1
<b>Sodium (mg/g)</b>	Flame Photometer	0 – 10.0	4.8
<b>Chloride (mg/g)</b>	Coulometric Titrator	0 – 3.0	0.4
<b>Calcium (mg/g)</b>	Atomic Absorption	0 – 0.5	0.01
<b>Iron (µg/g)</b>	Atomic Absorption	0 – 5.0	1.1
<b>Heavy metals (µg/g)</b>	Atomic Absorption	0 – 20.0	5.7
<b>L-Lactate (mg/g)</b>	Enzymatic Assay	0 – 0.5	0
<b>Uric Acid (mg/dL)</b>	Colorimetry (7 % solution)	0 – 4	0
<b>Urea nitrogen (mg/dL)</b>	Colorimetry (7 % solution)	0 – 7	0
<b>Total lipids (mg/g)</b>	Supercritical Fluid Extraction	0 – 3.5	1.6
<b>Free fatty acids (mg/g)</b>	Chromatography	0 – 1.0	0.1
<b>Esterified fatty acids (mg/g)</b>	Chromatography	0 – 1.5	< 0.1
<b>IgG</b>	Radialimmunodiffusion	none detected	none detected
<b>Moisture (%)</b>	Karl Fischer	0 – 5.0	< 5.0
<b>Minimum shelf life</b>			31.05.2022
<b>Storage (°C)</b>			+2 to +8

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 REGULATION (EC) 999/2001. All cattle received ante- and post mortem health

**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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Christian Monsler

Marina Konter

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