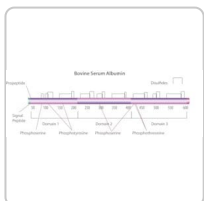


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## Documents

[↓ SDS](#)[🔍 COO/COA](#)[📄 Specification Sheet](#)**A9576** ▶ **Sigma-Aldrich**

# Bovine Serum Albumin solution

★★★★★ 5.0 (1)


30% in DPBS, sterile-filtered, BioXtra, suitable for cell culture

## Synonym(s):

Albumin solution from bovine serum, BSA solution

CAS Number: **9048-46-8**MDL number: **MFCD00130384**

NACRES: NA.75

SKU	Pack Size	Availability	Price	Quantity
A9576-50ML	50 ML	🟢 Estimated to ship on October 31, 2022	€536.00	<div>— +</div> 

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## RECOMMENDED PRODUCTS

Sigma-Aldrich

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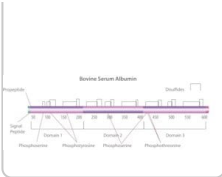
BSA molecular artwork, courtesy of Dr. David Goodwell.

**A1595**

**Bovine Serum Albumin solution**

10% in DPBS, low endotoxin, fatty acid free, suitable for cell culture, sterile-filtered

[View Price and Availability](#)



**A7979**

**Bovine Serum Albumin solution**

35% in DPBS, sterile-filtered, BioXtra, suitable for cell culture

[View Price and Availability](#)



**PROPERTIES**

biological source	bovine
Quality Level	500
sterility	sterile-filtered
product line	BioXtra
form	liquid
concentration	in phosphate buffer (DPBS)
technique(s)	cell culture   mammalian: suitable
impurities	endotoxin, tested
pH	6.5-7.5
shipped in	ambient

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storage temp.

2-8°C

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Looking for similar products? Visit [Product Comparison Guide](#)

## Related Categories

[Albumins and Transport Proteins](#)

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## DESCRIPTION

### General description

BSA is a single polypeptide chain consisting of about 583 amino acid residues and no carbohydrates. At pH 5-7 it contains 17 intrachain disulfide bridges and 1 sulfhydryl group.

### Application

[Select the right albumin for your application with the Albumin Selection Guide](#)

BSA 30% solution is a convenient form for direct supplementation of serum-free media. Bovine serum albumin is broadly used as an additive to cell culture media, especially serum-free media. It provides a range of benefits including protection from oxidative damage and stabilization of other media components such as fatty acids and pyridoxal.

### Preparation Note

Prepared from A9647 in DPBS (D5652).

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RELATED PRODUCTS

Related Product

08168

Timestrip Plus™ 8 °C

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SAFETY INFORMATION

Storage Class Code	WGK	Flash Point(F)	Flash Point(C)
12 - Non Combustible Liquids	WGK 3	Not applicable	Not applicable

DOCUMENTATION

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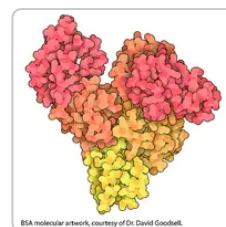


Sigma-Aldrich

**A7534**

**Bovine Serum Albumin solution**

35% in saline, contains azide, aseptically filled

[View Price and Availability](#)

Sigma-Aldrich

**A3299**

**Bovine Serum Albumin solution**

30% in 0.85% sodium chloride, aseptically filled

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## PEER REVIEWED PAPERS

## **Undernutrition modified metabolic responses to intramammary lipopolysaccharide but had limited effects on selected inflammation indicators in early-lactation cows.**

**J A A Pires et al.**

*Journal of dairy science*, 102(6), 5347-5360 (2019-03-25)

The objective was to assess effects of experimentally induced undernutrition on responses to an intramammary lipopolysaccharide (LPS) challenge in early-lactation cows. Starting at  $24 \pm 3$  d in milk, multiparous Holstein cows either received a ration containing 48% straw for

---

## **Extracellular vesicles direct migration by synthesizing and releasing chemotactic signals.**

**Paul W Kriebel et al.**

*The Journal of cell biology*, 217(8), 2891-2910 (2018-06-10)

Chemotactic signals are relayed to neighboring cells through the secretion of additional chemoattractants. We previously showed in *Dictyostelium discoideum* that the adenyl cyclase A, which synthesizes the chemoattractant cyclic adenosine monophosphate (cAMP), is present in the intraluminal vesicles of multivesicular

---

## **Association between serum albumin level and incidence of end-stage renal disease in patients with Immunoglobulin A nephropathy: A possible role of albumin as an antioxidant agent.**

**Yasuhiro Kawai et al.**

*PloS one*, 13(5), e0196655-e0196655 (2018-05-26)

Serum albumin is the major intravascular antioxidant. Though oxidative stress plays an important role in the pathophysiology of Immunoglobulin A nephropathy (IgAN), the association between serum albumin and the progression of IgAN is not entirely understood. This retrospective cohort study

---

## **Remodeling of the Acetylproteome by SIRT3 Manipulation Fails to Affect Insulin Secretion or $\beta$ Cell Metabolism in the Absence of Overnutrition.**

**Brett S Peterson et al.**

*Cell reports*, 24(1), 209-223 (2018-07-05)

SIRT3 is a nicotinamide adenine dinucleotide (NAD<sup>+</sup>)-dependent mitochondrial protein deacetylase purported to influence metabolism through post-translational modification of metabolic enzymes. Fuel-stimulated insulin secretion, which involves mitochondrial metabolism, could be susceptible to SIRT3-mediated effects. We used CRISPR/Cas9 technology to manipulate SIRT3 expression in

---

## **Physiological and Pathological Roles in Human Adrenal of the Glomeruli-Defining Matrix Protein NPNT (Nephronectin).**

**Ada Ee Der Teo et al.***Hypertension (Dallas, Tex. : 1979), 69(6), 1207-1216 (2017-04-19)*

Primary aldosteronism is a common cause of hypertension, which becomes refractory if undiagnosed, but potentially curable when caused by an aldosterone-producing adenoma (APA). The discovery of somatic mutations and differences in clinical presentations led to recognition of small but common

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## PROTOCOLS AND ARTICLES

### Articles

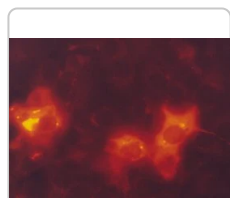
#### Albumin in Cell Culture

This page segues to comprehensive insights on how serum albumin and other important cell culture components affect the performance of serum-free cell culture systems used for biomanufacturing heterologous proteins including monoclonal antibodies. The page introduces the in vitro chemistry and...

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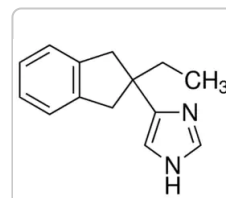
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Sigma-Aldrich

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produced in mouse**

clone M2, purified immunoglobulin, buffered aqueous solution



Sigma-Aldrich

**A9611****Atipamezole**  
≥98% (HPLC)

(Supplied as a solution in 10 mM sodium phosphate)

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1 ★	<input type="text"/>	0

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