NEW

ACTIVE BIOSCIENCE
PROTEINS · CELLS · ANTIBODIES

HSA ultra pure, recombinant

For serum free and chemically defined cell culture media

Perfect stabilizer for stock solutions of recombinant proteins

- Purity ≥ 98%
- Animal and human components free
- Low endotoxin
- Naturally prion free
- Lipid-enhanced

Recombinant human serum albumins offer the solution for chemically defined media. Regularly, the inexpensive recombinant HSA produced in plants is available in a purity of 96%, which is sufficient for many applications. For some of our in-house applications, a higher purity was needed, so we developed recombinant HSA ultra pure with a purity of over 98% for the most batches even ≥ 99%. We use HSA ultra pure for the stabilization of our stock solutions and media production.

Figure 1 shows the purity determination of lot #2835904011 in triplicate by SDS-PAGE.

The high lot to lot consistency of HSA ultra pure is shown in table 1.

Both, the high purity and lot to lot consistency, demonstrate the enormous reliability of our ultra pure HSA.

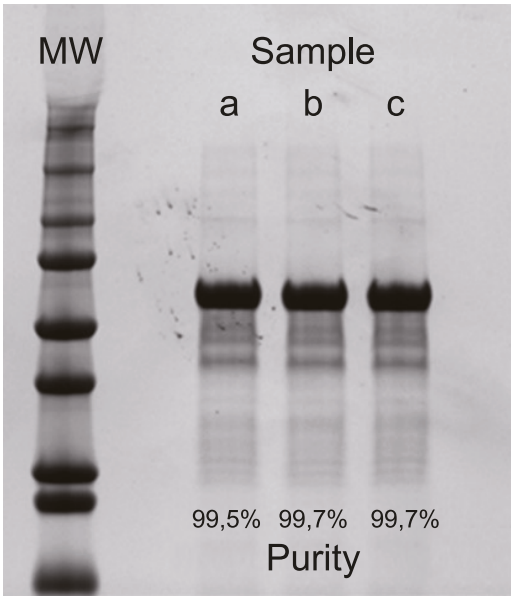

Figure 1

Table 1

Purity by SDS-PAGE (%)	Lot #
98,2	2835904012
99,7	2835904011
99,2	2835903909

Tested on
HEK293
Hybridoma/NS0
CHO
Fibroblasts
Mesenchymal stem cells
Hematopoietic stem cells
VERO/MDCK cell culture (Virus production)

For consistent growth and directed differentiation of a wide variety of human cell types

- Enhances cell doubling times
- Delivers essential lipids
- Provides micronutrients and antioxidants
- Reduces oxidative stress in cell culture applications

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Choosing the right albumin for your application

In mammalian blood, albumin is the most abundant protein component. It is necessary for the binding and transport of ions, fatty acids, vitamins, hormones, low molecular weight drugs and toxins. It also plays an important role in regulating serum pH, osmotic pressure and antioxidant activity. Because of these diverse capabilities, Abumin is an indispensable component in many cell culture media.

Still most widely used is the cost effective albumin from cow and calf serum (BSA or FBS/FCS) but more and more human albumin is needed. Mostly HSA isolated from human plasma is used, but even after the most elaborate purification, there are still components from the plasma that cannot be separated. So for defined conditions it is best to use recombinant human albumin.

Article	Source	Size	Article No.	Price (€)
Bovine Albumin serum / BSA	Bovine Serum	10 g	2835.919.108	165
		50 g	2835.919.508	290
		100 g	2835.919.177	420
Human Albumin serum / HSA	Human Plasma	1 g	2832.959.188	190
		10 g	2832.959.108	390
		100 g	2832.959.177	1190
		500 g	2832.959.577	3490
Human Albumin serum / HSA, liquid	Human Serum	100 mg	2835.959.166	60
		500 mg	2835.959.566	150
		5 g	2835.959.588	720
Human Albumin serum / HSA, protease free	Human Plasma	1 g	2833.959.188	220
		10 g	2833.959.108	450
		50 g	2833.959.508	850
		250 g	2833.959.256	2750
Human Albumin / HSA (recombinant glycosylated)	HEK	20 µg	2835.955.020	60
		100 µg	2835.955.100	150
		2 mg	2835.955.299	1350
Human Albumin / HSA (recombinant plant)	Oryza sativa (rice)	1 g	2834.958.188	220
		5 g	2834.958.588	690
		10 g	2834.958.108	750
		100 g	2834.958.177	5990
Human Albumin / HSA ultra pure (recombinant plant)	Oryza sativa (rice)	1 g	2835.958.188	290
		5 g	2835.958.588	750
		10 g	2835.958.108	1290

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