

Plasma Derived Proteins and Enzymes

Albumins

Albumins

For additional product details on albumins and albumin derivatives refer to the Sigma Catalog or visit our website.

Bovine Albumin Powders

SPECIFICATIONS	Cold Ethanol Processed							-Molecular Biology-		
	A4503	A2153	A6003	A3059	A7638	B9543	A9430	A7888	B4287	B2518
Purity (%)	96-99%	96-99%	>96%	~99%	>99%	>98%	>98%	96-99%	>98%	>98%
pH	5.2	7	7	7	7	7	7	5.2	7	7
Characteristics	Standard Grade	Standard Grade	Fatty-acid Free	Protease Free	Globulin Free	Endotoxin <0.1 ng/mg	Endotoxin <0.1 ng/mg	RIA Grade	Blocking Agent for Southern Blots	Acetylated
PRIMARY APPLICATIONS										
Cell Culture	•	•	•		•	•	•	•		
Blocking Agent (Includes ELISA application)			•	•				•	•	
Molecular Biology										•
Enzyme System Diluent or Component			•	•	•					
EIA/RIA Diluent			•	•				•		
Serology Diluent or Component	•	•	•	•	•			•		
Blood Bank Reagent/Diluent	•	•						•		
Immunology Applications			•	•	•					
Protein Stabilizer (base)	•	•	•		•			•		
Protein Control	•	•						•		
Carrier Protein, Binding and Transport	•	•	•				•	•		•

Bovine Albumin Powders

SPECIFICATIONS	Heat-Shocked Processed							Cell Culture Tested				
	A3912	A7906	A9647	A3803	A3294	A9085	A7030	A9418	A1470	A9056	A3311	A8806
Purity (%)	96%	>98%	>96%	>98%	>98%	96%	>98%	96-99%	>98%	96-99%	96-99%	>96%
pH	5.2	7	7	7	7	7	7	5.2	7	5.2	7	7
CHARACTERISTICS												
	Std Grade	Std Grade	Std Grade	Fatty-acid Free	Protease Free	IgG Free	RIA Grade	Cell Culture Tested	Cohn Analog	Microbiologically Tested	Embryo Tested	Fatty-acid Free
PRIMARY APPLICATIONS												
Cell Culture				•				•	•	•	•	•
Blocking Agent (Includes ELISA application)			•	•	•		•					•
Molecular Biology												
Enzyme System Diluent or Component	•	•	•	•	•	•	•	•				•
EIA/RIA Diluent				•	•		•		•			
Serology Diluent or Component	•	•		•	•	•	•					•
Blood Bank Reagent/Diluent	•	•					•					
Immunology Applications	•	•		•	•	•	•					
Protein Stabilizer (base)	•	•	•	•		•	•					•
Protein Control	•	•	•				•	•	•			•
Carrier Protein, Binding and Transport	•	•	•	•			•	•	•			•

Bovine Albumin Solutions

Sigma-Aldrich offers bovine albumin in a variety of solutions. These formulations are used for many of the same production applications as our powders. The added convenience of pre-formulation makes these solutions suitable as ready-to-use diluents, stabilizers and for specialty uses such as centrifugation density gradients. In addition to the solutions listed below, we can custom formulate solutions to your most stringent specifications.

SPECIFICATIONS	Analytical Standards					Molecular Biology Tested	Cell Culture Tested	
	A7409	A7284	A1662	A7034	B8894	A8918	A9576	A8412
Percent Solution (%)	35	30	30	22	20	35	30	7.5
Percent NaCl (%)	0.85	0.85	0.85	0.85	0	DPBS	DPBS	DPBS
pH						4.9 – 5.7	4.9 – 5.7	6.5 – 7.5
Preservative*	No	Yes	Yes	Yes	No	No	No	No
Stabilizer	No	No	No	No	No	No	No	No

PRIMARY APPLICATIONS

Density Gradient for Centrifugation	•							
Cell Culture Media	•							
Enzyme Diluent	•							
Immunology Diluent	•	•	•	•				
RIA	•	•	•	•				
EIA	•	•	•	•				
Serology Diluent	•	•	•	•				
General Cell Culture						•		•
Blocking Agent	•	•	•	•	•			

*When indicated, 0.1% Sodium azide is added as preservative

Serum and other Albumins

Catalog Number	Source	Purity	Preparation	Comment	Prepared from
A5503	Chicken egg white	98%	crystallized, lyophilized		
A5378	Chicken egg white	min. 90%	crystallized		
A2512	Chicken egg white	approx. 99%	lyophilized	Reduced mannose content	A5503
A7641	Chicken egg white	min. 95%	crystallized		
A5253	Chicken egg white	crude	lyophilized		
A1516	Baboon	approx. 96%	lyophilized	remainder mostly globulins	
A9263	Canine	approx. 96%	lyophilized	remainder mostly globulins	
A5287	Donkey	approx. 96%	lyophilized	remainder mostly globulins	
A9888	Equine	approx. 96%	lyophilized	remainder mostly globulins	
A2514	Goat	approx. 96%	lyophilized	remainder mostly globulins	
A2639	Guinea pig	approx. 96%	lyophilized	remainder mostly globulins	
A3060	Guinea pig	approx. 96%	lyophilized	essentially fatty acid free	A2639
A5409	Hamster	approx. 96%	lyophilized	remainder mostly globulins	
A3139	Murine	approx. 96%	lyophilized	remainder mostly globulins	
A3559	Murine	approx. 99%	lyophilized	essentially globulin free	A3139
A1056	Murine	approx. 96%	lyophilized	essentially fatty acid free	A3139
A4414	Porcine	approx. 99%	lyophilized	essentially globulin free	A2764
A2764	Porcine	approx. 96%	lyophilized	remainder mostly globulins	
A1173	Porcine	approx. 99%	lyophilized	essentially fatty acid free	A4414
A1830	Porcine	min. 98%	lyophilized	essentially globulin free	
A0764	Rabbit	approx. 99%	lyophilized	essentially globulin free	A0639
A0639	Rabbit	approx. 96%	lyophilized	remainder mostly globulins	
A9438	Rabbit	approx. 96%	lyophilized	essentially fatty acid free	A0639
A6272	Rat	approx. 96%	lyophilized	remainder mostly globulins	
A4538	Rat	approx. 99%	lyophilized	essentially globulin free	A6272
A6414	Rat	approx. 99%	lyophilized	essentially globulin free, essentially fatty acid free	A4538
A2018	Rat	approx. 96%	lyophilized	essentially fatty acid free	A6272
A4297	Rhesus monkey	approx. 96%	lyophilized	remainder mostly globulins	
A3264	Sheep	approx. 96%	lyophilized	remainder mostly globulins	
A6289	Sheep	approx. 96%	lyophilized	essentially fatty acid free	A3264
A9511	Human	97-99%	lyophilized	1x crystallized	
A1653	Human	96-99%	lyophilized	remainder mostly globulins	
A3782	Human	approx. 99%	lyophilized	essentially globulin free, fatty acid free	
A8763	Human	approx. 99%	lyophilized	essentially globulin free, essentially fatty acid free	A1653
A1887	Human	approx. 96%	lyophilized	essentially fatty acid free	A1653
A5843	Human	min. 98%	lyophilized	low endotoxin	
A4327	Human	min. 96%	lyophilized	remainder mostly globulins	
A6909	Human	min. 96%	30% solution in 0.85% NaCl	contains 0.1% NaN ₃ , aseptically filled	A1653
A9080	Human	approx. 98%	30% solution in 0.85% NaCl	aseptically filled, essentially protease free	
A7223	Human	approx. 98%	5% solution in phosphate buffer	recombinant	
A6784	Human	97-99%	30% solution in 0.85% NaCl	contains 0.05% NaN ₃ , aseptically filled	A1653