

Product Specification Sheet

**Mouse Serum Albumin**

Cat. # ALB13-N-25      Purified Mouse serum albumin protein (Fatty acid free and low endotoxin)      **SIZE:** 25 mg

Albumin is the protein of the highest concentration in serum or plasma. Albumin transports many small molecules in the blood (for example, bilirubin, calcium, progesterone, and drugs). It is also of prime importance in maintaining the osmotic pressure of the blood. Albumin is synthesized by the liver. Albumin performs many functions including maintaining the "osmotic pressure" that causes fluid to remain within the blood stream instead of leaking out into the tissues. Liver disease, kidney disease, and malnutrition are the major causes of low albumin. A diseased liver produces insufficient albumin. Diseased kidneys sometimes lose large amounts of albumin into the urine faster than the liver can produce it (this is termed nephrotic syndrome). Plasma albumin concentration is an important indicator of nutritional status, and low concentrations pre-surgery increase the risk of post-operative wound dehiscence, seroma formation and infection. Albumin levels are also dependant on the state of hydration of the body. A person that is dehydrated will have an artificially low albumin level. This returns to normal when the dehydration is corrected. Albumin fluctuates so widely because it is very sensitive to changes in hydration of the body.

**Source of Antigen**

Mouse serum albumin was purified by salt fractionation and chromatographical methods to (>95%, mol wt ~67 Kda). No heating was used during the purification. Purified protein is free from IgG or other contaminating serum proteins. Purified protein was also stripped of fatty acids.

Mouse serum albumin is supplied in PBS, pH 7.4 in powder form. The powder contains buffer salts (for each 1 mg protein, take 1.3 mg). Each 25 mg protein contains 32.5 mg of total powder (protein and salts). Reconstitute the protein in water or other buffers at desired concentration. . Store powder at 4oC and reconstituted solution at -20oC. Avoid repeated freeze and thaw.

Albumin protein	100% by agarose electrophoresis
pH of 1% solution	6.65
IgG concn	Not detected
Endotoxin concn	Determined by clot method 1.2 EU/mg or <0.01 EU/ug protein

**Recommended Usage**

Mouse serum albumin can be used a carrier protein, molecular weight standards, antigen or ELISA standards.

\*This product is for In vitro research use only.

**Related material available from ADI**

Anti-human, mouse, rat albumin antibodies and conjugates

Mouse, rat, human Albumin, IgG, IgM, IgE, and other serum protein ELISA kits

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**Stability:** 6-12 months at -20oC or below.