

## Datasheet

### Human Serum Albumin

#### HSA, US Origin

Product	Description	Catalogue-No.	Size
Human Serum Albumin	Human serum albumin, HSA US origin	P06-26010 P06-26025 P06-26050	10 g 25 g 50 g
Human Serum Albumin 20% Solution	Human serum albumin, HSA, 20% solution US origin	P06-27020 P06-27100 P06-27500	20 ml 100 ml 500 ml

#### Product description

Albumins are monomeric proteins found in body fluids and tissues. Human serum albumin (HSA) is the most abundant protein in human blood plasma with a molecular weight of about 66.5 kDa. The major biological function of albumin is to regulate the colloidal osmotic blood pressure. In addition, albumin acts as carrier protein for hormones, fatty acids and other compounds, and buffers pH. The reference range for albumin concentration in serum is approximately 35-50 g/L.

#### Storage conditions

Storage: 2-8 °C  
 Stability: 3 years from date of production

#### Composition

Human serum albumin lyophilized powder is >98% pure according to agarose gel electrophoresis. Human serum albumin 20 % solution is prepared in physiologic sodium chloride as a sterile solution.

#### Application and characteristics

Due to free hydrophobic regions albumins are used to solubilize lipids and stabilize other proteins such as e.g. growth factors in tissue culture applications. They are also used as blocking agents in Western blots or ELISA applications and as a protein standard. Albumin has a low molecular weight, is easily soluble in water (50 mg/ml), and contains an excess of acidic amino acids.

- Used as serum substitute in serum-free, xeno-free cell culture
- Medium component for cryopreservation and stem cell culture
- Stabilizer protein for pharmaceutical and biotech products
- Reduces unspecific binding in molecular biology assays
- Manufactured per US and European Pharmacopeia specifications
- Strict donor selection and screening

#### Suitability

FOR REASEARCH OR FURTHER MANUFACTURING USE ONLY!  
 Not for use in animal or human clinical or diagnostic application. Not for consumption.

**USE HUMAN BIOLOGICAL MATERIAL WITH RESPECTIVE SAFETY PRECAUTIONS**

#### Technical support

For technical support or questions please contact your local PAN-Biotech partner or the technical department of PAN-Biotech via email ([info@pan-biotech.com](mailto:info@pan-biotech.com))