



# CellPrime® rAlbumin

## Recombinant Albumin

### Product Description

CellPrime® rAlbumin is a non-animal origin (NAO) recombinant media supplement that is GMP manufactured according to EXCiPACT™. It combines excellent quality with superior performance and lot-to-lot consistency. This supplement is expressed from a synthetic DNA insert that encodes the human albumin gene sequence in the yeast *Pichia pastoris*. Like all members of the recombinant CellPrime® portfolio, CellPrime® rAlbumin is a non-animal origin (NAO) product that does not contain components of animal or human origin in the

- Master Cell Bank (MCB),
- Working Cell Bank (WCB),
- Production raw materials,
- Manufacturing process, or
- Final product

### Product Applications

Cellprime® rAlbumin does not use octanoate (caprylic acid), a commonly used stabilizer for albumins during pasteurization, in the manufacturing process or in the final product formulation. Octanoate is not well tolerated by a number of cell types.

CellPrime® rAlbumin can replace serum albumin (bovine or human serum origin albumin) in combination with recombinant transferrin and recombinant insulin as a supplement mix in cell culture media formulations. It removes the variability introduced into the manufacturing process by blood-derived proteins and safeguards against adventitious virus or prion contaminations. It mitigates the risk of contaminating a production facility that may result in a manufacturing shutdown and hence create supply shortages for patients.



This product aligns with our total viral safety strategy: **Prevent**, Detect, Remove and affords our customers a safe alternative to human or bovine serum derived albumin.

Thus, CellPrime® rAlbumin is the preferred supplement for the extension of these cell lines used in either (virus-borne) vaccine manufacturing or cell and gene therapies:

- MDCK, Vero, MRC-5, HEK 293 (T)
- Mononuclear and hematopoietic stem cells, T-lymphocytes
- Human mesenchymal stem cells (MSC), human embryonic (hESC) and induced pluripotent stem cells (iPSC)

## Key Benefits of Product Offering

- $\geq 98\%$  pure, multi-functional protein
- Oncotic pressure regulator
- Carrier for hormones, metabolites, fatty acids, minerals, scavenger of toxic radicals
- Cell therapy and viral vector stabilizer used for formulation and cryopreservation
- Stem and immunotherapy cell culture supplement
- Surface coating agent
- Recombinant, produced without the use of any animal- or human-derived material at any point of the manufacturing process (NAO)
- Recombinant replica of human serum albumin (non-glycosylated)
- Earmarked to attain Emprove® status
- Shelf-life: 2 years at recommended storage temperature

## Handling Instructions

- Store and ship CellPrime® rAlbumin refrigerated at 2–8 °C and keep on ice while handling
- Do not freeze

## Ordering Information

CellPrime® rAlbumin is provided as a 10% (w/v), 0.2  $\mu\text{m}$  filtered solution in PBS (25 mM phosphate buffer, 145 mM NaCl, pH 7.2) containing 2 and 5 g of recombinant albumin, respectively. For research and manufacturing use only.

Product Name	Volume (mL)	rAlbumin (g)	Cat. No.
CellPrime® rAlbumin	20	2	1.06331.0020
CellPrime® rAlbumin	50	5	1.06331.0050

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