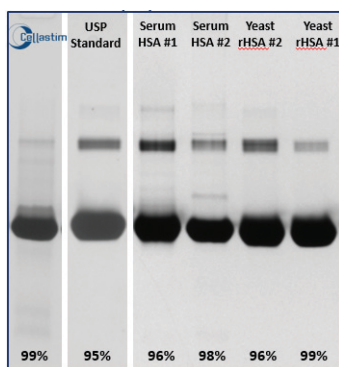
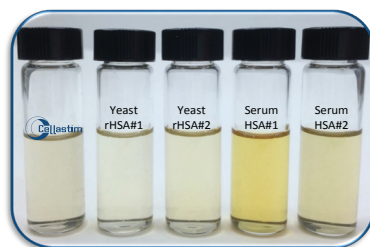


Cellastim™ is an animal free recombinant human serum albumin ideally suited for use in a wide variety of mammalian cell culture media, in therapeutic formulations, as a virus stabilization agent, as a diluent, and in tissue preservation applications. Cellastim delivers reliable performance compared to the variability associated with serum-derived albumin, and offers significant regulatory advantages due to its safety and consistency.

Cellastim's lipid-rich profile is favorable for reduced serum and serum free cell culture applications. Cellastim also has synergistic effects when combined with hydrolysates and can increase productivity in these applications.



Native-PAGE gel electrophoresis purity assay method according to USP monograph. Albumin from two serum sources and two yeast sources were compared to Cellastim and USP reference standard. Monomer purity % is indicated.



Cellastim displays fewer contaminating organic compounds than serum-derived albumins by visual color comparison. Cellastim, two recombinant yeast-derived albumins, and two serum-derived albumins were prepared as a 20% solution and visually compared.

INVITRIA Performance. Defined.

Product Name: Cellastim™
Product Number: 777HSA017
Product Form: powder

VWR Product Numbers:
10847-718 - 10 grams
10847-716 - 100 grams
10847-792 - 1 kilogram

Advantages

- Animal component free
- Defined and consistent
- Maximizes cell growth and productivity
- Regulatory friendly
- Lipid-rich profile favorable for cell culture applications

Cellastim is Recommended for:

- Virus Stabilization
- Tissue Preservation
- Diluent/Formulation Excipient
- Cell Line Development
- Seed Train Expansion

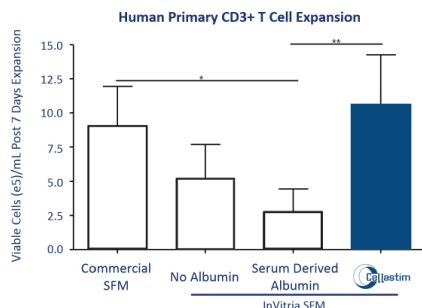
Stem Cell & Regenerative Medicine

- Primary Cells
- T Cells
- Mesenchymal
- iPS/Embryonic
- Neural
- Hematopoietic

Research and Production

- Primary Cells
- CHO
- Hybridoma
- VERO
- HEK293
- BHK
- MDCK
- PER.C6

Improved Serum Free Cell Growth in T-Cells



Cellastim improves growth in serum free conditions for Human Primary T Cells. Primary human T cells were isolated via CD3 negative selection from two independent donors and inoculated directly into either a commercially available serum free media (SFM) or Invitria's animal component free SFM with either no albumin, serum-derived albumin, or Cellastim at 3.3 g/L. All media were supplemented with 10 ng/mL rhIL-2. Cells were activated via CD3/CD28 beads at a 1:1 ratio and T cells were subsequently expanded for a total of 7 days. Media was doubled in volume every other day. * and ** p < .05 and .001, respectively by One Way ANOVA.

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