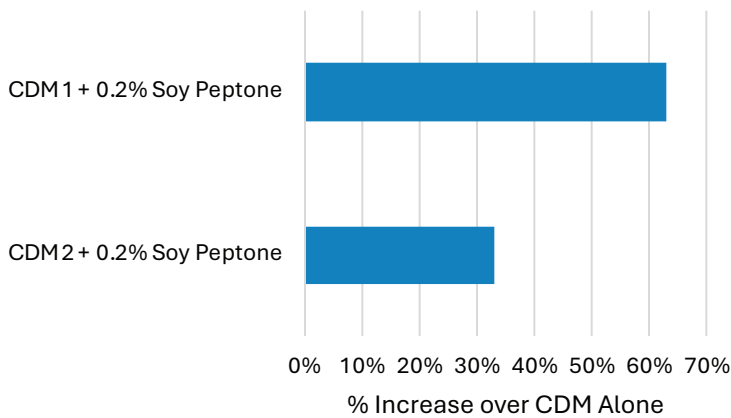


Nu-Tek Products

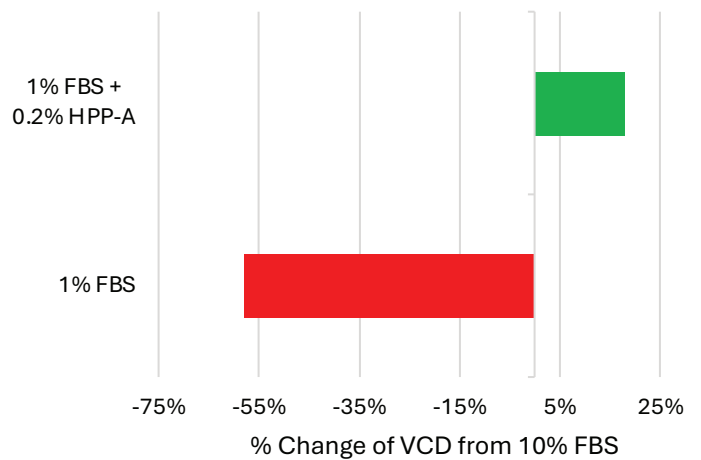
Plant-based Peptones for Bioprocessing

Impact of Soy Peptone Supplementation on IgG Titer



Comparison of CHO IgG production using Nu-Tek soy peptone addition to two different commercially available, chemically defined media (CDM) versus CDM alone. Addition of NTB soy peptone increased IgG production 30 – 60%.

Peptone Support of Low-Serum Conditions



Support of 90% FBS reduction by addition of Pea Peptone (HPP-A). Adherent CHO-K1 cells were cultured in 10%FBS, 1%FBS, or 1%FBS containing 0.2% HPP-A. Addition of pea peptone increased Viable Cell Density (VCD) ~20% over 10% FBS, even under low serum conditions.

Biopharmaceutical and industrial fermentation leaders increasingly pursue new methods to augment, supplement, or change media formulations to maximize process control and reproducibility.

Plant-based, animal-origin-free peptones provide a proven way to deliver complex nutrition while maintaining control, regulatory confidence, and supply security. Derived from sustainable plant sources, peptones supply critical profiles of peptides, amino acids, vitamins, and minerals that support robust cell and microbial performance. When strategically integrated into bioprocesses, customers have achieved measurable improvements, including:

- **Increased productivity**, including higher IgG titers across multiple CDM platforms
- **Simplified media strategies**, reducing formulation complexity and development timelines
- **Animal-origin-free supply chains**, supporting regulatory alignment, biosafety, and risk mitigation

For organizations seeking to enhance yields without compromising quality or compliance, plant-based peptones offer a scalable, future-ready solution. By replacing animal-derived complex materials, manufacturers gain consistency, security, and performance - without sacrificing flexibility or control.

Contact our Sales Team for more information about our product offerings, including sample requests, or scan this code:

Sales@nu-tekbioscience.com

