

Boosting protein expression in High5 and SF9 cells

Based on Vallazza & Petri, 1999 *Cytotechnology* 29:85-92

We usually turn to this protocol after calibration of viral infection, (best moi), screening the expression in both High5 and SF9 cells, and screening protein expression samples of protein quantities testing both cell lines. If your protein yield remains low after establishment of optimal conditions for viral titer, insufficient nutrients in the media might be the cause. You can use this procedure for boosting up your protein productivity.

1. Infect H5 cells at 2×10^6 cells per ml at moi of 0.1
2. 62h post infection, add the following components:

3.5gr/L D-glucose

750mg/liter Glutamine

750mg/liter Asparagine

0.5% FCS

3. Harvest cells up to 5th day for max efficiency

(Calibration of harvesting day is also recommended)

All additives are freshly prepared in a serum-free media, and are sterile filtered through 0.2 μ M