



Production Boost Additive

Cat # 95-006

Production Boost Additive (PBA) is a nutrient boost designed to extend the period of high viability following infection of insect cells with baculovirus. PBA should be added after complete infection of the culture has occurred. For high MOI infections i.e. MOI of 1 or greater, PBA can be added as soon as 6 hours post infection. For low MOI infections, PBA should be added 18-24 hours post infection to allow for spread of the secondary infection. PBA can be used at a concentration between 1-10%. If possible, perform a PBA titration experiment to determine the most efficient concentration for your particular protein. If a single concentration is to be used, we suggest 5%.

Suggested Protocol

Infect insect cells

For high MOI infections (≥ 1), add PBA no sooner than 6 hours post infection and up to 24 hours post infection

For low MOI infections (≤ 0.5), add PBA no sooner than 18 hours post infection and up to 36 hours post infection.

Monitor cell viability. The PBA will extend the period of high viability and therefore the time of harvest will need to be adjusted accordingly. PBA has been shown to be effective for a number of proteins; however, due to the broad variation of expression parameters, PBA may not always be a benefit.

Example of PBA Use:

Sf9 cells were infected at an MOI of 0.02

PBA was added 36 hours post infection

Expression of the secreted protein was measured over the course of the infection.

