Evaluation of production parameters with the vaccinia virus expression system using microcarrier attached HeLa cells.

Parameters that affect production of the recombinant reporter protein, EGFP, in the T7 promoter based VOTE vaccinia virus expression system were optimized using microcarrier attached HeLa cells. The system was grown at 36°C in a 30% oxygen atmosphere under the control of a T7 promoter. Yeast extract peptone dextrose (YPD) medium supplemented with Glutamine (1.5%) was used to balance the nitrogen level. The expression level reached approximately 17 microg EGFP/10^6 infected cells. The optimal pH for EGFP expression was 6.5.

DOI 10.1021/bp0498443

PubMed ID 15801798