

Characteristics	E. coli	Yeast	Insect cells	Mammalian cells
Cell growth	rapid (30 min)	rapid (90 min)	slow (18-24 h)	slow (24 h)
Complexity of growth medium	minimum	minimum	complex	complex
Cost of growth medium	low	low	high	high
Expression level	high	low - high	low - high	low - moderate
Extracellular expression	secretion to periplasm	secretion to medium	secretion to medium	secretion to medium
Posttranslational modifications				
Protein folding	refolding may be required	refolding may be required	proper folding	proper folding
N-linked glycosylation	none	high mannose	simple, no sialic acid	complex
O-linked glycosylation	no	yes	yes	yes
Phosphorylation	no	yes	yes	yes
Acetylation	no	yes	yes	yes
Acylation	no	yes	yes	yes
gamma-Carboxylation	no	no	no	yes