The real proteome of *Escherichia coli* K12

Artificial proteome: average amino acid composition of *E. coli* proteins; length of *E. coli* proteins

Artificial proteome: equal frequencies of amino acids; length of *E. coli* proteins

Artificial proteome: average amino acid composition of *E. coli* proteins; uniform length distribution in the range of *E. coli* proteins

Artificial proteome: amino acid composition calculated for the base composition of the *E. coli* genome; length of *E. coli* proteins