

Protein Expression in Silantes OD-Media

Report from our customer Prof. Sklenar, Masaryk University

Bacterial strain: Escherichia coli BL21
 Target protein: Recombinant Major Urinary Protein – I (MUP1)
 Construct: pET28b(+)-MUP1*
 Antibiotics: Kanamycin (30 µg/ml)

Cultivation parameters: Temperature: 30°C
 Reciprocal shaking

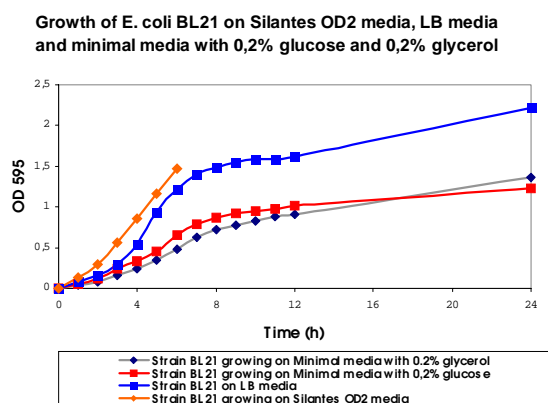


Fig. 1: The first three growth curves were measured without induction of expression of the protein. *E. coli* cells grown on Silantes media were induced by IPTG at $OD_{500} = 1.2$ (the orange curve). The final optical density after 24 hours was unchanged. (Data were kindly provided by Prof. Sklenar, Masaryk University)

...The result (with Silantes OD2 media) was comparable to typical rich growth media. In comparison to glucose-minimal media, the yield on Silantes OD2 was two-times higher; the growth parameters were good. Silantes OD2 media are very convenient to use. (Prof. Sklenar, Masaryk University 2001)

* Zidek L, Stone MJ, Lato SM, Pagel MD, Miao Z, Ellington AD, Novotny MV. NMR mapping of the recombinant mouse major urinary protein I binding site occupied by the pheromone 2-sec-butyl-4,5-dihydrothiazole. *Biochemistry* 38, 9850-61 (1999)

Bacterial Strain	Media	Yield per Litre of Media
<i>E. coli</i> BL21	Minimal media with 0,2% glycerol	3,75 mg
<i>E. coli</i> BL21	Minimal media with 0,2% glucose	10 mg
<i>E. coli</i> BL21	LB media	22 mg
<i>E. coli</i> BL21	Silantes OD2 media	20 mg