ECOS™ Sonic Competent Cells

I. Description

5/20 vials **Store at -80℃**

ECOS™ competent cells is the fast transformation competent cells developed by Yeastern Biotech technology. Without additional gene modification, the process takes less than 6 minutes to yield the high efficiency without the need of SOC recovery (with ampicillin).

ECOS™ Sonic competent cells is the derivative of BL21(DE3) strain. It inherits the protein expression and fast-growing feature from its parent strain. The further deletion of endA and recA improve the quality of plasmid DNA and enable the plasmid extraction in 3-6 hours growing.

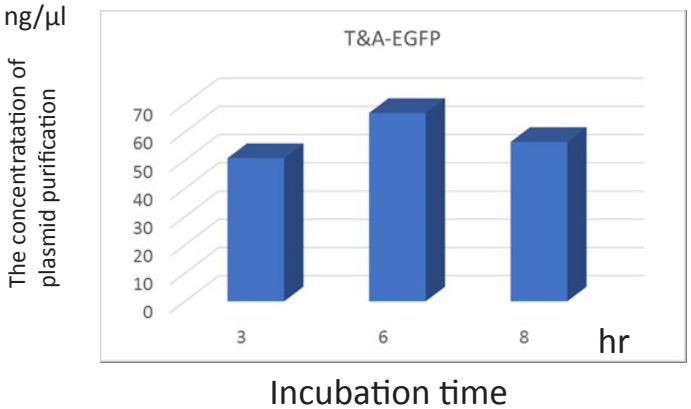
T&A Expression Kit (FYC201-10P) is recommended for ECOS™ Sonic; it combines the primary cloning of PCR product, and the subcloning for protein expression make the experiment easier and faster.

II. Genotype

F^-ompT hsdS_B ($r_B^-m_B^-$) gal dcm (DE3)ΔendA ΔrecA

III. Efficiency

≧$1*10^8$ cfu/μg



The concentration of plasmid purification will be largest after 3~6 hours incubation.

ECOS™ Competent Cells

1st day	2nd day	3rd day
· PCR · T&A Cloning (**Suggest: FYC201-10P**) or Other Cloning · Transformation	· Plasmid Identification	· Protein Expression

IV. Transformation Procedure

We suggest you follow the 6-minute transformation protocol.

Important Note:

Ampicillin (Ap)	20 μg/ml
Kanamycin (Km)	25 μg/ml
Tetracycline (Tc)	25 μg/ml
Chloramphenicol (Cm)	20 μg/ml

1. The recommended concentration is based on freshly prepared antibiotics.
2. The use of expired antibiotics will result in insufficient medicinal properties and it is easy to produce pseudo-transformed colonies.
3. If an excessive concentration of antibiotics is used or a combination of multiple antibiotics is used for screening, the efficiency of the transformation will be significantly reduced.

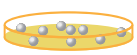
1. Circulating water bath or running tap water until ~1/2 competent cells thawing.

2. Incubate on ice and add pre-chilled plasmids. (please do not add over 5% the volume of competent cells.)

3. Vortex for 2 seconds

4. Incubate on ice for 5 minutes.

5. Heat shock at 42℃ for 30 seconds.



6. Plating on 4℃ or RT, dry plate. And Incubation at 37℃.