

E coli TG1

Summary

Code	P008
Alternative name	TG1 Escherichia coli Strains, TG1, Escherichia coli
Strains Resistance	None of resistance
Culture Medium	LB
Condition	37 °C, under the aerobic conditions
Genotype	[F' traD36 proAB lacIq ZΔ M15] supEthi-1 Δ(lac-proAB) Δ(mcrB-hsdSM)5(rK-mK-)

Description

TG1 is derived from E. coli K-12 strain, which is the fastest growing clone of Escherichia coli at present. At 37 °C on the plate, 7h can be cloned. The main strain of phage display, but also can be used to construct plasmid, lacIqZ Delta M15 which can be used for the blue white screening experiments; but without nuclease endA1 mutation, high in vivo nucleic acid enzyme content, using plasmid extraction kit to protein solution to removing nuclease in vivo of extraction plasmids. The TG1 strain needs to be cultured in the LB without antibiotics at °C, and then 20% of the glycerol is used to preserve the bacteria.

Minimal Medium plate

1 M MgCl₂•6H₂O: Dissolve 20.33 g in distilled water to a final volume of 100 ml and autoclave.

1 M CaCl₂•2H₂O: Dissolve 14.7 g in distilled water to a final volume of 100 ml and autoclave.

1 M thiamine hydrochloride: Dissolve 33.73 g in distilled water to a final volume of 100 ml and sterilize using a 0.22 μm filter.

20% glucose: Dissolve 20 g of D-(+)-glucose (anhydrous) in distilled water to a final volume of 100 ml and sterilize by filtration through a 0.2 μm filter. Do not autoclave.

In a 500 ml bottle, dissolve 6 g of Na₂HPO₄ (dibasic), 3 g of KH₂PO₄(monobasic) and 1 g of NH₄Cl in distilled water to a final volume of 500 ml. adjust the pH to 7.4 with NaOH.

In a separate 1 liter bottle, add distilled water to 15 g of Bacto-agar to a final Volume of 500 ml. Autoclave both bottles simultaneously to sterilize. Cool both bottles to 50-60°C and combine. Add 1 ml of 1 M MgCl₂•6H₂O, 1 ml of 1 M CaCl₂•2H₂O, 1 ml of 1 M thiamine hydrochloride and 5 ml of 20% glucose. Pour plates immediately.

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pComb3XTT	10μg	P002
pComb3XLambda	10μg	P003
pComb8	10μg	P004
pCANTAB5E	10μg	P005
Helper phage M13K07	1mL	P006
Helper phage VCSM13	1mL	P007
E.coli TG1	1mL	P008
E.coli ER2738	1mL	P009
E.coli XL1-blue	1mL	P010
E.coli SS320	1mL	P012
E.coli TOP10 F'	1mL	P016

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