

# Champion™ Competent Cell



## *Mix then Spread - Saving Time*

- **High Transformation Efficiency**

*> 1 x 10<sup>8</sup> - 10<sup>9</sup> cfu/µg pUC19 DNA*

*Ideal for all cloning and library preparation*

- **Time Saving, Easy-to-Use**

*Transformation needs only 20 seconds to 6 minutes.*

*Heat shock and recovery procedures optional.*

- **No Expensive Equipment needed**

*No need for an expensive electroporator and disposable cuvettes*





Notice: the antibiotic concentration for Champion™ Competent Cells

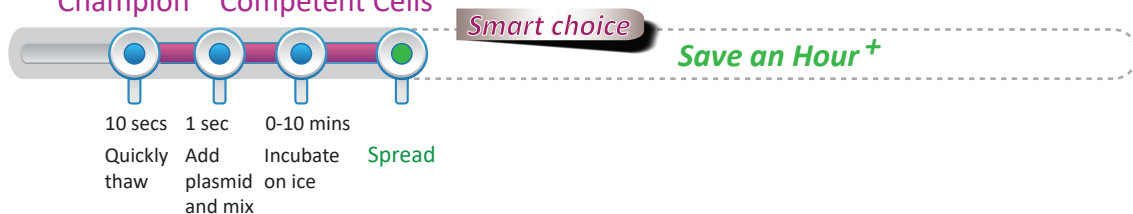
Ampicillin (Ap)	20 µg / ml
Kanamycin (Km)	25 µg / ml
Tetracycline (Tc)	7.5 µg / ml
Chloramphenicol (Cm)	20 µg / ml

## Time-saving Transformation Protocol

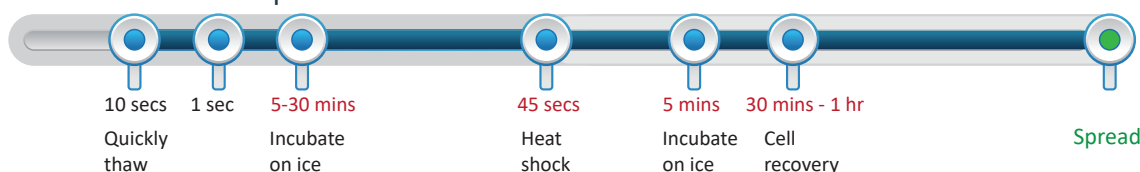
- 1 Quickly thaw the Champion™ Competent Cells with hand (body temperature), warm water bath or running tap water about 10~20 seconds until 1/3~1/2 volume is thawed.
- 2 Add less than 10% of competent cell volume DNA (ex. ligation products) to cells.
- 3 Vortex 1 sec or tap the tube with finger to mix well.
- 4 Incubate on ice for 0~10 min. (The ice-incubation will slightly increase efficiency)
- 5 Plate the bacteria/DNA mixture onto a pre-warmed (room temperature to 37°C) and dried selective LB agar plate (LB + antibiotic).
- 6 Incubate the plates at 37°C until the colonies are suitable for analysis.

\*standard transformation protocol can be found in product information

### Champion™ Competent Cells



### Homemade Competent Cells



## Items and ordering information

Product Name	Compatible to <i>E. coli</i> strain	Efficiency (cfu/µg)	Quantity	Cat. No.
Champion™ 109 High	<i>E. coli</i> JM109	>1 x 10 <sup>8</sup>	100 µl x 80 vials	CC0202
			100 µl x 24 vials	CC0204
Champion™ 21	<i>E. coli</i> BL21 (DE3)	>1 x 10 <sup>7</sup>	100 µl x 80 vials	CC2102
			100 µl x 24 vials	CC2104
Champion™ DH5α High	<i>E. coli</i> DH5α	>3 x 10 <sup>8</sup>	100 µl x 80 vials	CC5202
			100 µl x 24 vials	CC5204

