

# ECOS™ 9-5 Competent Cells [JM109]

JM109 is often used to select the recombinant DNA using the activity of  $\beta$ -galactosidase ( $\alpha$ -complementation) recovered with *lacZ $\alpha$*  peptide of the vector DNA and *lacZ $\Delta$ M15* coded in F' episome in this strain. This strain carries F' episome and it is useful for the preparation of ssDNA as well as gene library construction and subcloning.

This product, when used in combination with Yeastern's rapid ligation kit YC001 (yT&A Cloning Kit) becomes a powerful tool in cloning. The ligation can be finished within 5 minutes, then followed by 1-minute transformation. The fast growth rate of JM109 allows colonies to show up within 8 hours. Use this strain when you need to get the clone in urgent.

ECOS™ 9-5 Competent Cells are chemically competent and have been developed using a novel chemical preparation. ECOS™ technology makes the cell highly efficient for DNA uptake.

## Storage Conditions

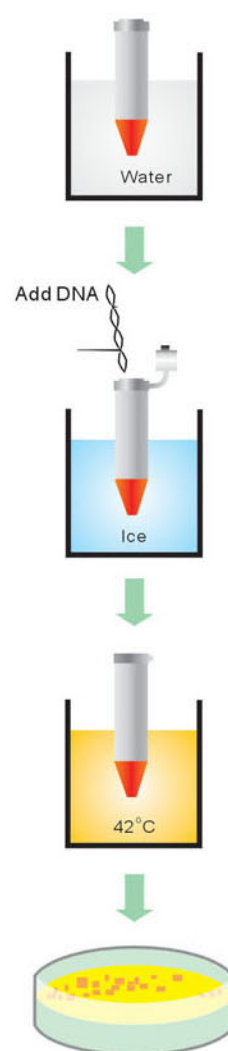
- Store at -70°C
- Each shipment will be electronically monitored to check the temperature variation during shipment.

## Ordering Information

ECOS™ 9-5 Competent Cells (JM109)*		
Cat. No.	Efficiency** (colonies/ $\mu$ g pUC19)	Quantity
YE707	$1 \times 10^7 \sim 1 \times 10^8$	100 $\mu$ l x 10 vials
YE707-J		100 $\mu$ l x 80 vials
YE708	$1 \sim 5 \times 10^8$	100 $\mu$ l x 10 vials
YE707-96	$\geq 1 \times 10^7$	40 $\mu$ l x 96 wells
YE708-96	$5 \times 10^7 \sim 1 \times 10^8$	40 $\mu$ l x 96 wells

\* There is 5  $\mu$ l of pUC19 control plasmid ( $10^{-4}$   $\mu$ g/ $\mu$ l) in each package.

\*\* Number varies depending on the antibiotic and the protocol used.



ECOS™