

## ECOS™ Blue Competent Cells [XL1-Blue]

This strain is the most popular for blue/white screening. It is also an excellent host strain for routine cloning application using plasmid or lambda vectors. XL1-Blue cells are tetracycline resistant. XL1-Blue cells are endonuclease (*endA*) deficient, which greatly improve the quality of miniprep DNA, and are recombination (*recA*) deficient, improving insert stability. The *hsdR* mutation prevents the cleavage of cloned DNA by the *EcoK* endonuclease system. The *lacIqZΔM15* gene on the F' episome allows blue-white color screening.



ECOS™ Blue 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™ Blue Competent Cells (XL1-Blue)*		
Cat. No.	Efficiency** (colonies/μg pUC19)	Quantity
YE107	1 × 10 <sup>7</sup> ~ 1 × 10 <sup>8</sup>	100 μl × 10 vials
YE107-J		100 μl × 80 vials
YE108	1 ~ 5 × 10 <sup>8</sup>	100 μl × 10 vials
YE108-J		100 μl × 80 vials
YE109	5 × 10 <sup>8</sup>	100 μl × 10 vials
YE109-J		100 μl × 80 vials
YE107-96	≥ 1 × 10 <sup>7</sup>	40 μl × 96 wells
YE108-96	5 × 10 <sup>7</sup> ~ 2 × 10 <sup>8</sup>	40 μl × 96 wells
YE109-96	≥ 2 × 10 <sup>8</sup>	40 μl × 96 wells

\* There is 5 μl of pUC19 control plasmid (10<sup>-4</sup> μg/μl) in each package.

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

