



64279

## Bacterial Transformation Kit - 1 (Teaching)

Part E

### Specifications

Stability

The competent cells should be viable for three to six months from the date of manufacture when stored as instructed.

Activity

All components of kit were tested for transformation of E.coli strain with supercoiled plasmid pUC19

### Other Information

Description

Transformation, a process central to recombinant DNA technology, is the process by which a foreign DNA is introduced into a bacterium. In this kit, the experiment employs a 3-5kb circular Plasmid DNA as the foreign DNA. The Plasmid contains genes of interest to us along with a selection markers (i.e., genes which confer antibiotic resistance). For Transformation to be successful, the recipient bacterium, called the Host, should first be made Competent for the uptake of DNA. This kit describes a simple procedure for the same. The competent status, however, is not permanent and is lost eventually. In general, freshly made competent cells provide high Transformation efficiency.

Includes

Components	15 Experiments	30 Experiments
Host cells	1.2 ml	2.0 ml
Sterile LB medium	50.0 ml	60.0 ml
Sterile LB medium	10.0 ml	15.0 ml
Competent cells	3.0 ml	5.0 ml
Plasmid DNA (50 ng/mcl)	40.0 mcl	80.0 mcl
0.1M CaCl <sub>2</sub>	30.0 ml	60.0 ml
LB Agar	18.0 gm	36.0 gm
Ampicillin	400 mg	800 mg
Sterile water	1.0 ml	2.0 ml

### General Information

Storage

Includes components ranging from RT to -20°C

Shelf Life

12 Months

IMDG Identification

Not Regulated for Transport (Non-Haz)

HSN Code

15 expt. Kit

38229090 (GST 12%)

30 expt. Kit

38229090 (GST 12%)

### Available Packages

15 expt. Kit

30 expt. Kit

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#### Disclaimer

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