

## Lenti-X™ T-Cell Transduction Sponge

**Catalog No.**

631480

**Amount**

12 rxns

**Lot Number**

Specified on product label.

### Description

The Lenti-X T-Cell Transduction Sponge expedites and streamlines lentiviral transduction of T cells, bypassing the need for prior activation or spinoculation with chemical enhancers. This innovative approach employs the same macroporous alginate matrix as the Lenti-X Transduction Sponge (Cat. No. 631478) but is infused with an optimized blend of rhIL-2 (100 IU) and anti-human CD3 & CD28 antibodies. This combination allows T-cell activation and lentiviral transduction to occur in a single step, and the straightforward protocol minimizes cell manipulation and reduces reaction volumes while yielding transduction efficiencies on par with or superior to traditional techniques.

### Package Contents

- 12 rxns Lenti-X T-Cell Transduction Sponge
- 30 ml Release Buffer
- 1 each Forceps

### Storage Conditions

- Store Lenti-X T-Cell Transduction Sponges at 4°C in the supplied foil pouch containing the desiccant sachet.
- Return unused sponges to the supplied foil pouch with desiccant and store at 4°C.
- Store Release Buffer at 4°C.

### Expiration Date

- Specified on product label.

### Shipping Conditions

- Blue ice

### Product Documents

Documents for our products are available for download at [takarabio.com/manuals](http://takarabio.com/manuals)

The following documents apply to this product:

- Lenti-X T-Cell Transduction Sponge User Manual

### Quality Control Data

#### Transduction Test

Human primary T cells (CD3+) were transduced with lentivirus expressing GFP as described in the protocol. At 48 hr post-transduction, activation efficiency (as determined by the percentage of CD69+ cells) was demonstrated to be  $\geq 30\%$  with an interwell % CV of  $< 20\%$ . Cell viability was determined to be  $> 70\%$  through 7-AAD viability staining. At 96 hr post-transduction, GFP expression was assessed by FACS, and transduction efficiency (as determined by the percentage of green-fluorescent-protein-expressing cells) was demonstrated to be  $\geq 30\%$  with an inter-well % CV of  $< 20\%$ .

#### Sterility Test

The Lenti-X T-Cell Transduction Sponge was dissolved in Release Buffer and the resulting mixture was used to inoculate thioglycolate medium and tryptic soy broth. There was no evidence of bacterial or fungal growth after inoculation.

It is certified that this product meets the above specifications, as reviewed and approved by the Quality Department.

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**Takara Bio USA, Inc.**

2560 Orchard Parkway, San Jose, CA 95131, USA

U.S. Technical Support: [technical\\_support@takarabio.com](mailto:technical_support@takarabio.com)United States/Canada  
800.662.2566  
(041625)Asia Pacific  
+1.650.919.7300Europe  
+33.(0)1.3904.6880Japan  
+81.(0)77.565.6999

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### CATALOG NO.

631480

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### STATEMENT 446

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#### Takara Bio USA, Inc.

2560 Orchard Parkway, San Jose, CA 95131, USA

U.S. Technical Support: [technical\\_support@takarabio.com](mailto:technical_support@takarabio.com)

#### United States/Canada

800.662.2566

#### Asia Pacific

+1.650.919.7300

#### Europe

+33.(0)1.3904.6880

#### Japan

+81.(0)77.565.6999

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