

## 10X Lysis Buffer

**Catalog No.**  
635013

**Amount**  
Each

**Lot Number**  
Specified on product label.

### Description

The 10X Lysis Buffer is a cell lysis buffer that can be used together with the SMARTer® Ultra™ Low Input RNA Kit for Sequencing - v3 and the SMART-Seq™ v4 Ultra Low Input RNA Kit for Sequencing.

### Package Contents

- 1.85 ml 10X Lysis Buffer

### Storage Conditions

- Store at  $-20^{\circ}\text{C}$ . Once thawed, the buffer can be stored at  $4^{\circ}\text{C}$ .

### Shelf Life

- 1 year from date of receipt under proper storage conditions.

### Shipping Conditions

- Dry ice ( $-70^{\circ}\text{C}$ )

### 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:

- SMARTer Ultra Low Input RNA Kit for Sequencing - v3 User Manual
- SMART-Seq v4 Ultra Low Input RNA Kit for Sequencing User Manual

### Quality Control Data

The 10X Lysis Buffer was functionally tested using other reagents from the SMART-Seq v4 Ultra Low Input RNA Kit for Sequencing. Reactions were assembled and performed as described in the SMART-Seq v4 Ultra Low Input RNA Kit for Sequencing User Manual.

10 pg of control total RNA was subjected to first-strand cDNA synthesis. This template was then subjected to PCR amplification using 17 cycles. PCR products were purified with an Agencourt AMPure XP Kit (Beckman Coulter, Part No. A63880 or A63881) and resuspended in 17  $\mu\text{l}$  of Elution Buffer. 1  $\mu\text{l}$  of the PCR reaction was analyzed with an Agilent 2100 Bioanalyzer and a High Sensitivity DNA Kit (Agilent, Cat. No. 5067-4626). The resultant analysis indicated the cDNA size range was approximately 300 bp to 10,000 bp. A peak was manually integrated from 300 bp to 9,000 bp. To calculate the total cDNA output, the concentration, defined by Bioanalyzer software, was multiplied by 17  $\mu\text{l}$ . Outputs ranged from 3.4–17 ng.

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.

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