

# LbuCas13a Dilution Buffer

## Instruction Manual

<b>Product Number</b>	LbuCas13a Dilution Buffer
<b>Product Number</b>	EDE0002-D

### I. Product Description

**LbuCas13a Dilution Buffer** is a specialized diluent for LbuCas13a protein. The components added help in the stable storage of LbuCas13a protein without affecting its reaction activity. This product does not contain any nuclease activity and is suitable for purposes such as the dilution and storage of LbuCas13a protein from our company.

### II. Product Information

#### ·Product Components

Component	EDD0001-2
LbuCas13a Dilution Buffer	1 mL*5 tube

#### ▪ Storage Conditions and Delivery

Store at 4°C; transport at room temperature.

### III. Reaction System

Using AapCas12b as an example:

Component	Final Concentration	Volume ( $\mu$ L)
5 $\mu$ M LbuCas13a	50 nM	0.25
5 $\times$ Cleavage Buffer	1 $\times$	5
25 U RNase Inhibitor	1 U	1
500 nM crRNA	50 nM	2.5
4 $\mu$ M ssRNA Reporter	400 nM	2.5
1 $\mu$ M RNA target	50 nM	1.25
DEPC H <sub>2</sub> O		
Total	25 $\mu$ L	25 $\mu$ L

Fluorescence signals are detected using a real-time fluorescent quantitative PCR machine or an isothermal amplification instrument, reacting at 37°C, with fluorescence signal collected every 30 seconds.

#### Precautions

1. To prevent contamination by RNase, please keep the experimental area clean and tidy. Wear clean gloves and masks during operations. All consumables, such as pipette tips and centrifuge tubes, should be RNase-free.
2. Each enzyme provided by our company comes with a corresponding enzyme dilution buffer. This product is exclusively for use with LbuCas13a protein.
3. It is recommended that the diluted LbuCas13a protein concentration be at least 1  $\mu$ M. Considering that the storage duration decreases as the protein concentration decreases, it is not recommended to store LbuCas13a protein at extremely low concentrations.

#### Publishing Requirements

When using this product in publications, please acknowledge our company: Guangzhou Editgene Co. Ltd, China. Or EDITGENE CO.LTD if used within U.S. or Europe territory.