

# 10×LbCas12a Cleavage Buffer

## Instruction Manual

<b>Product Number</b>	LbCas12a Dilution Buffer
<b>Product Number</b>	EDE0005-B

### I. Product Description

**10× LbCas12a Cleavage Buffer** is a specialized buffer for LbCas12a protein trans-cleavage reactions. This buffer ensures optimal enzyme activity, effectively enhancing the trans-cleavage activity of the LbCas12a protein without affecting its target detection specificity. Therefore, it can be used in LbCas12a-mediated CRISPR diagnostic reaction systems. The buffer contains recombinant proteins.

### II. Product Information

#### ·Product Components

Component	EDD0001-5
10×LbCas12a Cleavage Buffer	1 mL*1 tube

#### · Storage Conditions and Delivery

Store at 4°C; transport at room temperature.

### III. Reaction System

Using LbCas12a as an example:

Component	Volume ( $\mu$ L)	Final Concentration
10 $\times$ Cleavage Buffer	3	1x
5 $\mu$ M AapCas12b Nuclease	1	33 nM
500 nM crRNA	2	33 nM
4 $\mu$ M ssDNA Reporter	6	400 nM
1 $\mu$ M DNA target	0.1	3.5 nM
DEPC H <sub>2</sub> O	-	-
<b>Total</b>	<b>30 <math>\mu</math>L</b>	<b>30 <math>\mu</math>L</b>

Real-time Fluorescent Quantitative PCR or isothermal amplification instruments are used to detect fluorescence signals. The reaction takes place at 37°C, and fluorescence signals are collected every 30 seconds.

#### Precautions

1. Each enzyme provided by our company comes with a corresponding reaction buffer. This product is exclusively for use with LbCas12a protein.

#### 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.