

5×LbuCas13a Cleavage Buffer

Instruction Manual

Product Number	5×LbuCas13a Cleavage Buffer
Product Number	EDE0002-B

I. Product Description

5×LbuCas13a Cleavage Buffer is a specialized buffer for LbuCas13a protein trans-cleavage reactions. This buffer ensures optimal enzyme activity, effectively enhancing the trans-cleavage activity of the LbuCas13a protein without affecting its target detection specificity. Therefore, it can be used in LbuCas13a-mediated CRISPR diagnostic reaction systems.

II. Product Information

·Product Components

Component	EDA0001-2
5×LbuCas13a Cleavage Buffer	1 mL*1 tube

▪ Storage Conditions and Delivery

Store at 4°C; transport at room temperature.

III. Reaction System

Using LbuCas13a as an example:

Component	Final Concentration	Volume (μ L)
5 μ 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 μ M ssRNA Reporter	400 nM	2.5
1 μ M RNA target	50 nM	1.25
DEPC H ₂ O		
Total	25 μ L	25 μ L

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 LbuCas13a 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.