

LbCas12a Dilution Buffer

Instruction Manual

Product Number	LbCas12a Dilution Buffer
Product Number	EDE0005-D

I. Product Description

LbCas12a Dilution Buffer is a specialized diluent for LbCas12a protein. The components added help in the stable storage of LbCas12a 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 LbCas12a protein from our company.

II. Product Information

·Product Components

Component	EDD0001-5
LbCas12a 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 (μ L)
10 \times Cleavage Buffer	1 \times	2 μ L
5 μ M AapCas12b Nuclease	150-250 nM	0.8 μ L (200 nM)
500 nM crRNA	150-250 nM	8 μ L (200 nM)
4 μ M ssDNA Reporter	150-250 nM	1 μ L (200 nM)
1 μ M DNA target	150-250 nM	4 μ L (200 nM)
DEPC H ₂ O	-	-
Total	-	20 μ L

Fluorescence signals are detected using a real-time fluorescent quantitative PCR machine or an isothermal amplification instrument, reacting at 60°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 LbCas12a protein.
3. It is recommended that the diluted LbCas12a protein concentration be at least 1 μ M. Considering that the storage duration decreases as the protein concentration decreases, it is not recommended to store LbCas12a 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.