

# 10×AapCas12b Cleavage Buffer

## Instruction Manual

<b>Product Number</b>	10×AapCas12b Cleavage Buffer
<b>Product Number</b>	EDE0006-B

### I. Product Description

**10× AapCas12b Cleavage Buffer** is a specialized buffer suitable for AapCas12b protein trans-cleavage reactions. This buffer ensures optimal enzyme activity, effectively enhancing the trans-cleavage activity of the AapCas12b protein without compromising its target detection specificity. Therefore, it can be used in AapCas12b-mediated CRISPR diagnostic reaction systems. The buffer contains recombinant proteins.

### II. Product Information

#### ·Product Components

Component	EDA0001-6
10×AapCas12b Cleavage Buffer	1 mL*1 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)
10 $\times$ Cleavage Buffer	1 $\times$	2 $\mu$ L
5 $\mu$ M AapCas12b Nuclease	150-250 nM	0.8 $\mu$ L (200 nM)
500 nM crRNA	150-250 nM	8 $\mu$ L (200 nM)
4 $\mu$ M ssDNA Reporter	150-250 nM	1 $\mu$ L (200 nM)
1 $\mu$ M DNA target	150-250 nM	4 $\mu$ L (200 nM)
DEPC H <sub>2</sub> O	-	-
Total	-	20 $\mu$ 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

Each enzyme provided by our company comes with a corresponding reaction buffer. This product is exclusively for use with AapCas12b 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.