# ATAGENIX LABORATORIES

**Catalog Number:ATE00009**

**Benzonase Nuclease**

## Product overview

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| **Product Name** | Benzonase Nuclease |
| **Catalog No.** | ATE00009 |
| **Expression host** | E.coli |
| **MW** | 29.9kDa |
| **Purity** | >95% as determined by SDS-PAGE quantitative densitometry by Coomassie Blue Staining |
| **Enzyme activity** | >800U/μL |
| **Unit Definition** | 37 ℃, pH 8.0 reaction conditions, 2.625 mL reaction system, change the absorption value of △A260 to 1.0 in 30 minutes ( equivalent to the complete digestion of 37 μg salmon sperm DNA into an oligonucleotide). The amount of enzyme used is defined as an activity. Unit ( U). |
| **Tag** | C-terminal His Tag |
| **Note** | For research use only. |

## Product performance

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| **Form** | Liquid |
| **Buffer** | 25mM Tris pH 8.0, 100mMNaCl, 50% Glycerol |
| **Storage** | Store at -20 ° C, 12 months shelf life |

## Standard Operating Procedure

1. Method

a. Tissue sample processing method: After grinding 30-100mg of animal and plant tissues, add 100-200ul of lysate, and add 5-10ul of lysate at the same time.

Benzonase Nuclease, mix well, incubate at room temperature or on ice for 30min, collect the lysate, centrifuge and take the supernatant for subsequent operations.

b. Cell sample processing method: Collect suspended cells by centrifugation, resuspend the cells by adding 1ml RIPA lysate, and add 10-20ul of

Benzonase Nuclease, mix well, incubate at room temperature or on ice for 30min, collect the lysate, centrifuge and take the supernatant for subsequent operations.

Tip: Reattach adherent cells to PBS for post-treatment in the same way as suspended cells.

c. Escherichia coli or other bacteria treatment methods: Collect the bacteria by centrifugation and lysate, and add 1-5ul of Benzonase per 1ml

Nuclease, mix well, incubate at room temperature for 30min, collect lysate, centrifuge and take the supernatant for subsequent operations.

## Product experiment picture