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NotI-HF Restriction Enzyme

Catalog Number: E110-1, E110-2

Table 1. Kit Components and Storage

Kit Component	E110-1 (500 units)	E110-2 (2500 units)	Storage	Stability
NotI-HF (20 units/µL)	25 µL	125 µL	-20 °C, avoid repeated free-thaw	The product is stable for 12 months when stored as directed.
10× Reaction Buffer	250 µL	1.25 mL		

Product Description

NotI-HF restriction enzyme recognizes GC^GGCCGC site and cuts best at 37°C in 5-15 minutes using Reaction Buffer provided. NotI-HF has the same specificity as native enzyme, but has been engineered for significantly reduced star activity.

The enzyme is available in 500 and 2,500 unit sizes at a concentration of 20 U/µL. The enzyme is supplied with a 10× Reaction Buffer.

Applications

- Molecular cloning.
- Restriction site mapping.
- Genotyping.
- Southern Blot.

Product Specifications

- **Storage Buffer:** 10 mM Tris-HCl (pH 7.4), 50 mM NaCl, 1 mM DTT, 0.1 mM EDTA, 0.2 mg/mL BSA, and 50% (v/v) glycerol.
- **Unit Definition:** One unit is defined as the amount of enzyme required to digest 1 µg of pBC4 DNA in 1 hour at 37°C in a total reaction volume of 50 µl.

Restriction Digest Protocol

1. Assemble the following reaction at room temperature:

10× Reaction Buffer	5 µL
DNA	1 µg
NotI-HF	0.5-1 µL
Nuclease-free water	to 50 µL
Total volume	50 µL

2. Mix gently and spin down for a few seconds.
3. Incubate at 37 °C for 1 h.
4. Stop the reaction by heating at 70°C for 10 min.