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# Thermolabile Proteinase K Typical Reaction Protocol V.2

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[dx.doi.org/10.17504/protocols.io.bg9wjz7e](https://dx.doi.org/10.17504/protocols.io.bg9wjz7e)**New England Biolabs (NEB)**Tech. support phone: **+1(800)632-7799** email: **info@neb.com****New England Biolabs**  
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Thermolabile Proteinase K is an engineered, subtilisin-related serine protease that will hydrolyze a variety of peptide bonds and is frequently used to cleanup enzymatic reactions or cell lysates.

- Heat inactivated following incubation at 55°C for 10 minutes.
- Optimal activity and stability for up to 24 months.
- Active in a wide range of reaction buffers with optimal activity between 20 - 40°C and pH 7.0 - 9.5.
- No detectable endonuclease, exonuclease, DNase or RNase contaminating activities.

DOI

[dx.doi.org/10.17504/protocols.io.bg9wjz7e](https://dx.doi.org/10.17504/protocols.io.bg9wjz7e)<https://www.neb.com/protocols/2019/03/19/thermolabile-proteinase-k-typical-reaction-protocol>

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Proteinase K

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#### MATERIALS


 **Thermolabile Proteinase K New England**

**Biolabs Catalog #P8111S**

Please see SDS (Safety Data Sheet) for hazards and safety warnings.

- 1 Reactions may be scaled-up linearly to accommodate larger amounts of substrate and larger reaction volumes. Optimal buffering reagents, enzyme quantity, incubation temperatures and times may vary for particular substrates. Typical restriction enzyme cleanup conditions are as follows:

To a **50 µL restriction enzyme digest** containing **1 µg DNA** and **10 units** of a restriction enzyme:

- 2 

Add **1 µL Thermolabile Proteinase K**, mix gently.

- 3 

Incubate reaction at **37 °C** for **00:15:00**.

- 4 

Incubate reaction at **55 °C** for **00:10:00** to inactivate *Thermolabile Proteinase K*.

Note: Optimal reaction buffers, reaction temperatures as well as additional reaction properties of Thermolabile Proteinase K can be found in detail in the [FAQ](#). Optimization may be required for other cleanup applications (ligation, extension, PCR, etc.)