

---

**DNA Polymerase I**  
***Klenow Fragment (3 U/μl),***  
**sequencing grade**

Cat. No.: 39718

**PRODUCT DESCRIPTION**

The large fragment of DNA polymerase I, Klenow Fragment, has two of the three properties of the intact DNA polymerase I enzyme. Klenow Fragment has 5' → 3'-DNA polymerase activity and 3' → 5'-exonuclease activity. However it lacks the 5' → 3'-exonuclease activity of intact DNA polymerase I.

---

**Unit Definition:**

One unit is defined as the amount of enzyme required to convert 10 nmoles of total deoxyribonucleotides to an acid insoluble form in 30 minutes at 37 °C.

---

**Storage Buffer:**

100 mM Tris-HCl (pH 7.5)  
10 mM •-mercaptoethanol  
50 % glycerol.

**Reagents Supplied with Enzyme:** 10x Assay Buffer

**1x Assay Buffer:** 50 mM Tris-HCl (pH 7.6 at 25 °C), 10 mM MgCl<sub>2</sub>.

---

**Storage:** Store enzyme and assay buffer at - 15 °C to - 25 °C.

Vers. 0709