

## Active Recombinant E. coli Poly(A) Polymerase

**Cat. No.** PF1-62E    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                             |
|-------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | The gene encoding E. coli Poly(A) Polymerase expressed from a plasmid in E. coli.                                                                                                                                                           |
| <b>Species</b>          | E.coli                                                                                                                                                                                                                                      |
| <b>Source</b>           | E.coli                                                                                                                                                                                                                                      |
| <b>Description</b>      | Poly(A) Polymerase catalyzes the addition of AMP from ATP to the 3' hydroxyl of RNA. The reaction requires Mg <sup>2+</sup> and is template independent.                                                                                    |
| <b>Bio-activity</b>     | >20,000 U/mg                                                                                                                                                                                                                                |
| <b>Molecular Mass</b>   | 53,870 Daltons                                                                                                                                                                                                                              |
| <b>Purity</b>           | >95% by SDS-PAGE                                                                                                                                                                                                                            |
| <b>Unit Definition</b>  | 1 unit is defined as the amount of enzyme that will incorporate 1 nmol of ATP into acid-insoluble material in 10 minutes at 37°C.                                                                                                           |
| <b>Storage</b>          | -25 to -15°C                                                                                                                                                                                                                                |
| <b>Concentration</b>    | 5,000 U/mL                                                                                                                                                                                                                                  |
| <b>Storage Buffer</b>   | Supplied in: 25mM Tris-HCl, 500mM NaCl, 0.1mM DTT, 0.1mM EDTA, 1mM MgCl <sub>2</sub> , 50% glycerol pH 8.0 @ 25°C. Supplied with: 10X Poly(A) Polymerase Reaction Buffer: 500mM Tris-HCl, 2.5M NaCl, 100mM MgCl <sub>2</sub> pH 7.9 @ 25°C. |

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