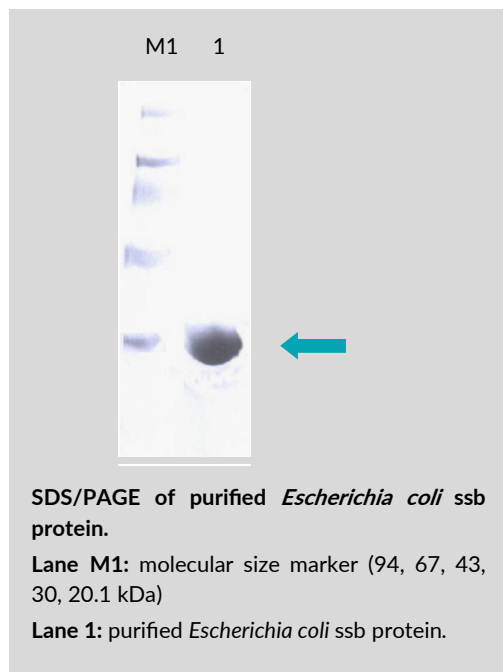


Single-stranded DNA Binding Protein

(*Escherichia coli*)

Cat. No.	size
E4200-01	100 µg
E4200-02	500 µg

Storage Conditions: Store at -20°C.



Single-stranded specific DNA binding protein from *Escherichia coli*.

Description:

- Single-stranded specific DNA binding protein (1).
- Helix destabilizing protein (1).
- Reduces formation of problematic secondary DNA structures.
- Prevents degradation of ssDNA by nucleases.
- Ultrapure recombinant protein.
- Prevents inhibition of PCR by template DNA contaminants (2).
- Improves the efficiency of DNA amplification by Taq DNA Polymerase (3, 4, 5, 6).
- Improves the specificity and selectivity of multiplex PCR (7).
- Aids PCR of difficult and GC-rich templates.
- Stabilizes single-stranded regions of DNA for site-specific mutagenesis.
- Aids completion of restriction enzyme digestion.

Storage Buffer:

20 mM Tris-HCl (pH 8.0 at 22°C), 500 mM NaCl, 1 mM dithiothreitol, 0.2 mM EDTA and 50% (v/v) glycerol.

Quality Control:

All preparations are assayed for contaminating endonuclease, 3'- and 5'- exonuclease activities. Typical preparations are greater than 95% pure, as judged by SDS polyacrylamide gel electrophoresis.

References:

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3. Dąbrowski, S., Olszewski, M., Piątek, R. and Kur, J. (2002) *Protein Expr. Purif.* 26, 131-138.
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5. Rapley, *Mol. Biotech.* 2 (1994) 295-298.
6. Schwarz, K., Hansen-Hagge, T. and Bartram, C. (1989) *Nucleic Acids Res.* 18, 1079.
7. Barski, P., Piechowicz, L., Galinski, J. and Kur, J. (1996) *Mol. Cell Probes* 10, 471-475.

This product is developed, designed and sold exclusively for research purposes and in vitro use only.

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