

***E. coli* Single-stranded DNA Binding Protein (SSB)**

02-042 200 µg, 02-042-5 1 mg

Storage: -20°C

Applications:

1. Functional single-stranded DNA-binding protein for studying DNA replication and recombination
2. Enhancement of the specificity and yield of PCR

Background: *E. coli* single-stranded DNA binding protein (SSB) binds to single-stranded DNA with high specificity (1, 2). It is involved in DNA replication and recombination *in vivo*. The SSB gene was expressed as the recombinant protein in *E. coli* highly purified. The molecular mass is 18.9 kDa.

Form: 2 mg/ml in 20 mM Tris-HCl (pH 7.6), 200 mM NaCl, 1 mM dithiothreitol, 1mM EDTA, 50% glycerol

Purity: Greater than 95% purity as determined by SDS-PAGE (CBB staining)

The absence of endonucleases and exonucleases was confirmed.

Data Link: UniProtKB/Swiss-Prot [POAGE0](#) (SSB_ECOLI)

References:

1. Krauss G *et al* (1981) "Escherichia coli single-strand deoxyribonucleic acid binding protein: Stability, specificity, and kinetics of complexes with oligonucleotides and deoxyribonucleic acid." *Biochemistry* **20**: 5346-5352 PMID: [7028102](#)
2. Weiner JH *et al* (1975) "The deoxyribonucleic acid unwinding protein of Escherichia coli. Properties and functions in replication." *J. Biol. Chem.* **250**:1972-1980 PMID: [1090613](#)

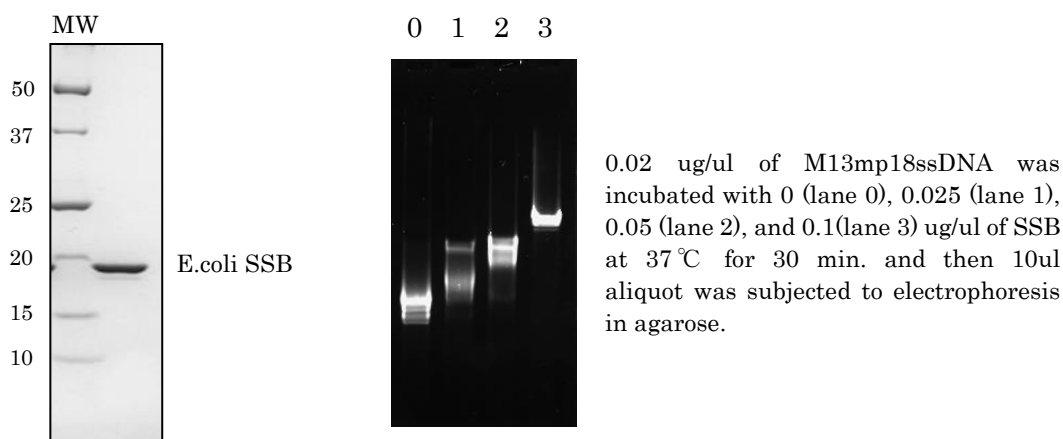


Fig.1 SDS-PAGE of *E. coli* SSB protein Fig.2 Binding activity to single-stranded DNA

Related product: [#02-040](#) T4 SSB protein, [#02-044](#) Taq SSB

Please note: All products are FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES. NOT FOR MILITARY USE.