



Applied Biological Materials Inc.

Tel: 1-866-757-2414  
Email: [info@abmGood.com](mailto:info@abmGood.com)  
Website: [www.abmGood.com](http://www.abmGood.com)

## RecA, *E.coli*

Store at -20°C

Cat. No.	Description	Concentration	Quantity
E024	RecA, <i>E.coli</i>	2.0 mg/ml	200 µg (100 µl)

### Product Description

RecA from *E. coli* is a DNA-binding protein that is involved in homologous recombination in an ATP-dependent process. RecA binds to single-stranded DNA forming a nucleoprotein complex and promotes the strand exchange of single-strand DNA fragments with homologous duplex DNA. RecA also plays a role in post-replicative DNA repair mechanisms and in DNA repair and UV-induced mutagenesis. RecA protein is commonly used to study the molecular mechanisms involved in homologous recombination.

Part No.	Product Components	200 µg
E024-1	RecA, <i>E.coli</i> (2.0 mg/ml)	100 µl
E024-2	10X RecA, <i>E.coli</i> Reaction Buffer	1.0 ml

### Product Applications

- Displacement loop mutagenesis
- Targeted DNA cleavage
- Visualization of DNA with electron microscopy
- Library screening with RecA coated probes

### Product Source

Recombinant *E. coli*.

### Protein Storage Buffer

10 mM Tris-HCl (pH 7.5), 0.1 mM EDTA, 1 mM DTT, and 50% (v/v) Glycerol.

### Storage Conditions

Store all components at -20°C. Avoid repeated freeze-thaw cycles of all components to retain maximum performance. All components are stable for 1 year from the date of shipping when stored and handled properly.

### 10X RecA, *E. coli* Reaction Buffer Components

700 mM Tris-HCl, 100 mM MgCl<sub>2</sub>, 50 mM DTT pH 7.5.

### Reaction Conditions

Usage concentration 2 mg/ml. Note: Triple helix formation requires ATP (not provided).

### Heat Inactivation

65°C for 20 minutes.

*For laboratory research only. Not for clinical applications.  
For technical questions, please email us at [technical@abmgood.com](mailto:technical@abmgood.com)  
or visit our website at [www.abmGood.com](http://www.abmGood.com)*