

Escherichia coli Gyrase wildtype B Subunit

		_
		- 1
1		
1		
1		
1		
		- 1
1		
1		
1		
1		
1		
1		

Product Description (Product Numbers SUBB001, SUBB005, SUBB100)

DNA gyrase B subunit is prepared from the over producing strain JMtacA (Hallett, *et al.*, 1990). Supercoiling activity is 60-100U/ul when tested in combination with the GyrA subunit. Store at -80°C.

For in vitro laboratory research use only.

Dilution Buffer

50 mM Tris.HCl (pH 7.5) 100 mM KCl 2 mM dithiothreitol 1 mM EDTA 50 % (w/v) glycerol

Assay Buffer (supplied as 5X stock)

35 mM Tris.HCl (pH 7.5)

24 mM KCI

4 mM MgCl₂

2 mM dithiothreitol

1.8 mM spermidine

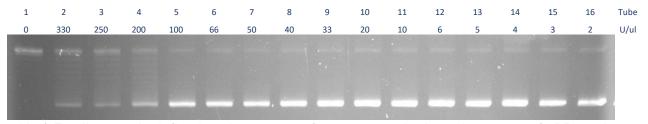
1 mM ATP

6.5 % (w/v) glycerol

0.1 mg/ml albumin

Supercoiling Assay

E.coli gyrase is incubated with 0.5 μg of relaxed pBR322 in a reaction volume of 30 μl at 37°C for 30 minutes in Assay Buffer. Gels are run in the absence of Ethidium Bromide or Chloroquine. Supercoiling activity is 60-100U/ μl. Protein concentration is 1mg/ml



1 U of *E.coli* gyrase is defined as the amount of enzyme required to relax 0.5 μ g of pBR322 in a reaction volume of 30 μ l at 37°C for 30 minutes in Assay Buffer.

Reference

Hallett, P., Grimshaw, A.J., Wigley, D.B. and Maxwell, A. (1990) Cloning of the DNA gyrase genes under *tac* promoter control: overproduction of the gyrase A and B proteins. *Gene* 93: 139-142



Escherichia coli Gyrase wildtype A Subunit

		_
1		- 1
1		- 1
1		- 1
1		- 1
		- 1
1		- 1
1		- 1
1		- 1
1		- 1
1		- 1
1		- 1
1		- 1
1		- 1
		- 1

Product Description (Product Numbers SUBA001, SUBA005, SUBA100)

DNA gyrase A subunit is prepared from the over producing strain JMtacA (Hallett, *et al.*, 1990). Supercoiling activity is 60-100U/ul when tested in combination with the GyrB subunit. Store at -80°C.

For in vitro laboratory research use only.

Dilution Buffer

50 mM Tris.HCl (pH 7.5) 100 mM KCl 2 mM dithiothreitol 1 mM EDTA 50 % (w/v) glycerol

Assay Buffer (supplied as 5X stock)

35 mM Tris.HCI (pH 7.5)

24 mM KCI

4 mM MgCl₂

2 mM dithiothreitol

1.8 mM spermidine

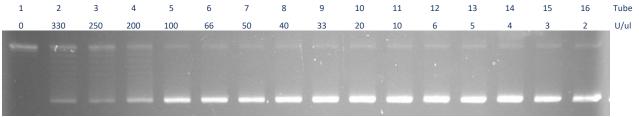
1 mM ATP

6.5 % (w/v) glycerol

0.1 mg/ml albumin

Supercoiling Assay

E.coli gyrase is incubated with 0.5 μg of relaxed pBR322 in a reaction volume of 30 μl at 37°C for 30 minutes in Assay Buffer. Gels are run in the absence of Ethidium Bromide or Chloroquine. Supercoiling activity is 60-100U/ μl. Protein concentration is 1mg/ml



1 U of *E.coli* gyrase is defined as the amount of enzyme required to relax 0.5 μg of pBR322 in a reaction volume of 30 μl at 37°C for 30 minutes in Assay Buffer.

Reference

Hallett, P., Grimshaw, A.J., Wigley, D.B. and Maxwell, A. (1990) Cloning of the DNA gyrase genes under *tac* promoter control: overproduction of the gyrase A and B proteins. *Gene* 93: 139-142