S. pneumoniae GYRASE



Product Description (Product Numbers # SPG1001 and SPG5002)

S. pneumoniae gyrase is supplied as an A_2B_2 complex. The enzyme is supplied at a minimum concentration of 2-5 U/µl in Dilution Buffer with assay and dilution buffer. Store at -80 °C. It is recommended that the enzyme is aliquoted to avoid repeated freeze-thaw cycles.

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

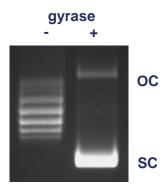
0.1 mg/ml albumin

Supercoiling Assay

1 U of *S.pneumoniae* 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.





Quality Control

- 1) Purity *S.pneumoniae* gyrase is purified to > 95 % purity as judged by SDS-polyacrylamide gel electrophoresis.
- 2) No activity was detectable when the single subunits were assayed alone