M.tuberculosis Gyrase Cleavage Assay Kit

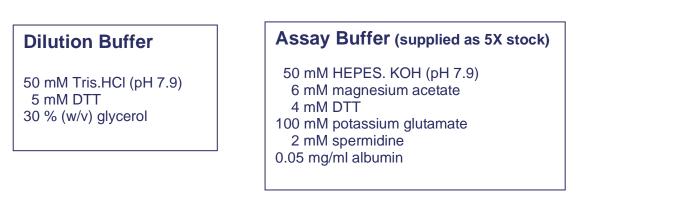


Product Description

(Product Numbers MTGC001, MTGC002)

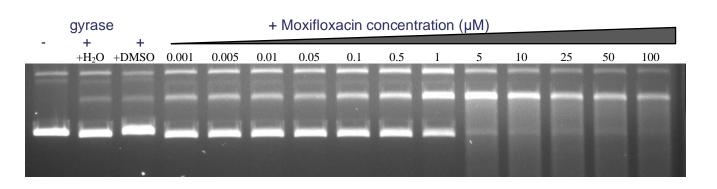
M. tuberculosis DNA gyrase is a C-terminal HIS-tagged protein purified after heterologous expression in *E. coli* and is supplied as an A2B2 complex. The enzyme is supplied at a concentration of 3.5 μ M in Dilution Buffer and is suitable for cleavage assays. Cleavage activity is a minimum of 2.5 – 5.0 U/ μ l. Maximum cleavage can be obtained with 0.2 μ l in the presence of 100 μ M Moxifloxacin in a 30 μ l reaction (see typical titration below).

Store at -80°C. For *in vitro* laboratory research use only.



Cleavage Assay

Gyrase is incubated with 0.5 μ g of supercoiled pBR322 in a reaction volume of 30 μ l at 37 °C for 1 hour in Assay Buffer in the presence of Moxifloxacin. 0.2 % SDS and 0.1 mg/ml Proteinase K are added before a further incubation at 37 °C for 30 minutes.



Quality Control

Purity: The A and B subunits are purified to > 95 % purity as judged by SDS-polyacrylamide gel electrophoresis.

Endonuclease assay: 0.5 μ g relaxed pBR322 incubated with 0.5 U of DNA gyrase for 1 hour at 37 °C in the presence of 1 mM ATP shows no detectable conversion of supercoiled DNA to either open circular or linear forms when assayed by agarose gel electrophoresis.