

DATA QUALITY SHEET



SP6 RNA Polymerase

FOR RESEARCH USE ONLY

Cat. GC-012-1000, GC-012-10000

DESCRIPTION	Isolated from a recombinant <i>E. coli</i> strain this DNA-dependent RNA polymerase is strictly specific for its promoter. It is used to transcribe RNA from DNA templates, cloned into vectors containing SP6 promoter, to generate high specific activity labeled RNA probes, RNA for in vitro translation, biologically active mRNA and/or preparative quantities of defined length RNA by run off transcription.
CONCENTRATION	60 units/ μ l.
UNIT DEFINITION	One unit is the amount of enzyme that incorporates 1 nmol of labelled nucleoside triphosphates into acid-precipitable RNA in 60 minutes at 37°C.
STORAGE BUFFER	20 mM Tris-HCl pH 7.5; 100 mM NaCl; 0,1 mM EDTA; 2 mM DTT; 0,1 mg/ml BSA; 50% glycerol (v/v)
REACTION BUFFER	Reaction buffer (5x): 200 mM Tris-HCl pH 7.9; 30 mM MgCl ₂ ; 50 mM DTT
STORAGE TEMPERATURE	Store SP6 RNA polymerase below 0°C, preferably at -20°C, in a constant temperature freezer.
FUNCTIONAL ANALYSIS	Tested functionally in a unit activity test.