

SPECIFICATION SHEET

Product Name: SP6 RNA Polymerase**Catalog # SR01-E21B**

Product Description: SignalChem Diagnostics SP6 RNA Polymerase (20 U/μL) is a recombinant enzyme designed for efficient *in vitro* transcription of RNA from DNA templates containing an SP6 promoter sequence. The enzyme utilizes NTPs as substrates and can transcribe from single- or double-stranded DNA templates, producing RNA transcripts complementary to the downstream DNA sequence. The enzyme is also able to recognize modified NTPs, such as those labelled with biotin, digoxigenin, or fluorescein, making it suitable for a broad range of molecular biology and biotechnology applications.

Components:	Pack size	2 kU	10 kU
	SP6 RNA Polymerase (20 U/μL)	100 μL	500 μL
	10X SP6 Reaction Buffer	500 μL	2 x 1 mL

Shipping & Storage: Store at -25 °C ~ -15 °C for 2 years.

Specifications: Expression Host: Recombinant *E. coli* strain carrying the *Salmonella typhimurium* SP6 RNA gene
SP6 Promoter Sequence: 5' -ATTAGGTGACACTATAGAAGNG-3'

Additional Information:

1. Use nuclease-free pipette tips and tubes, and aliquot to avoid repeated freeze-thaw cycles.
2. For research use only.
3. Use appropriate personal protective equipment (PPE), such as a laboratory coat and gloves, and follow proper disposal protocols.