



For research use only

ISO9001

T4 RNA Ligase

Product	Quantity	Cat. No.	Remarks
T4 RNA Ligase	1.000 U	EBT-3010	10U/ μ l

Description

T4 RNA Ligase catalyzes the ATP-dependent ligation of single-stranded DNA or RNA onto the 5'-phosphoryl termini of single-stranded DNA or RNA. T4 RNA Ligase also catalyzes the addition of [5'-³²P] nucleoside 3',5'-bis (phosphate) onto single-stranded RNA. T4 RNA Ligase is purified from a recombinant *E.coli* strain.

Concentration & Storage Condition

10 unit/ μ l. Store at -20°C.

Storage Buffer

10 mM Tris-HCl, pH 7.5, 50 mM KCl, 0.1 mM EDTA, 1 mM DTT, 0.1% Tween 20, 50% glycerol.

10x Reaction Buffer

500 mM Tris-HCl, pH 7.8, 100 mM MgCl₂, 50 mM DTT, 10 mM ATP.

Unit Definition

One unit catalyzes the formation of 1 nmole of [5'-³²P]rA₁₄₋₂₀ into a phosphatase-resistant form in 30 min at 37°C in a total volume of 30 μ l. The reaction conditions are: 50 mM Tris-HCl, pH 7.8, 10 mM MgCl₂, 5 mM DTT, 1 mM ATP and 10 μ M [5'-³²P]rA₁₄₋₂₀.

QC Tests

Activity, exo and endonuclease activity test, SDS-PAGE purity, performance tests.



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