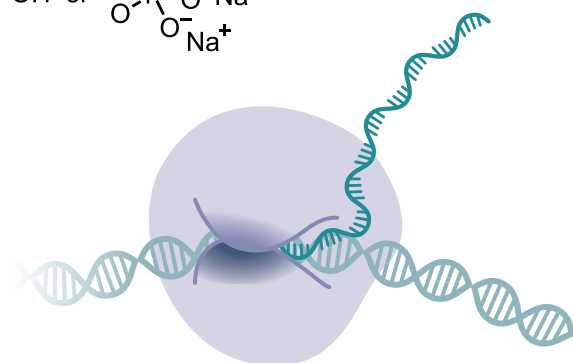
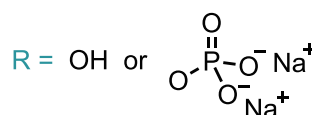
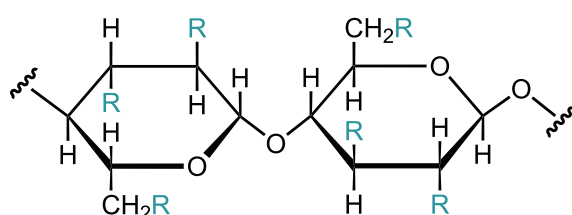


Affinity Chromatography

Cellufine™ Phosphate

Cellufine Phosphate is an affinity chromatography resin with phosphate groups as ligands. It offers high selectivity and stability, making it suitable for purifying nucleic acid-binding proteins, including enzymes used in mRNA production, even without an affinity tag.



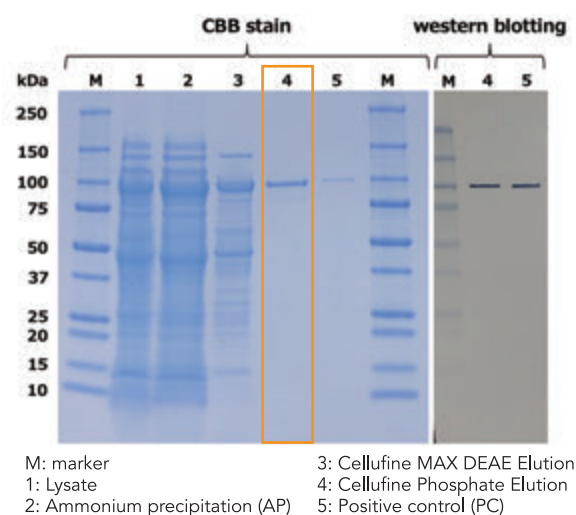
► Ligand and Adsorption Characteristics

Base Matrix:	Cellulose
Ligand:	Phosphate ester
Ligand Density:	0.3 – 0.8 meq/mL
Adsorption Capacity:	≥ 20 mg/mL-gel (lysozyme)
CIP Stability:	Stable in 0.5 mol/L NaOH over 100 cycles, suitable for repeated use

► Purification Example of T7 RNA Polymerase

Two-step purification:
Crude purification with Cellufine MAX DEAE
Affinity purification with Cellufine Phosphate

Enzyme Activity Recovery: **70.2%**
Protein Recovery: **24.7%**
SDS-PAGE analysis shows near single-band purity, indicating efficient removal of contaminants.



New Release!

New High-Capacity Resin - Planned for release in November, 2025!

The new high-capacity Cellufine Phosphate offers over **9x** greater binding capacity for T7 RNA polymerase and over **7x** greater capacity for IgG compared to conventional products.