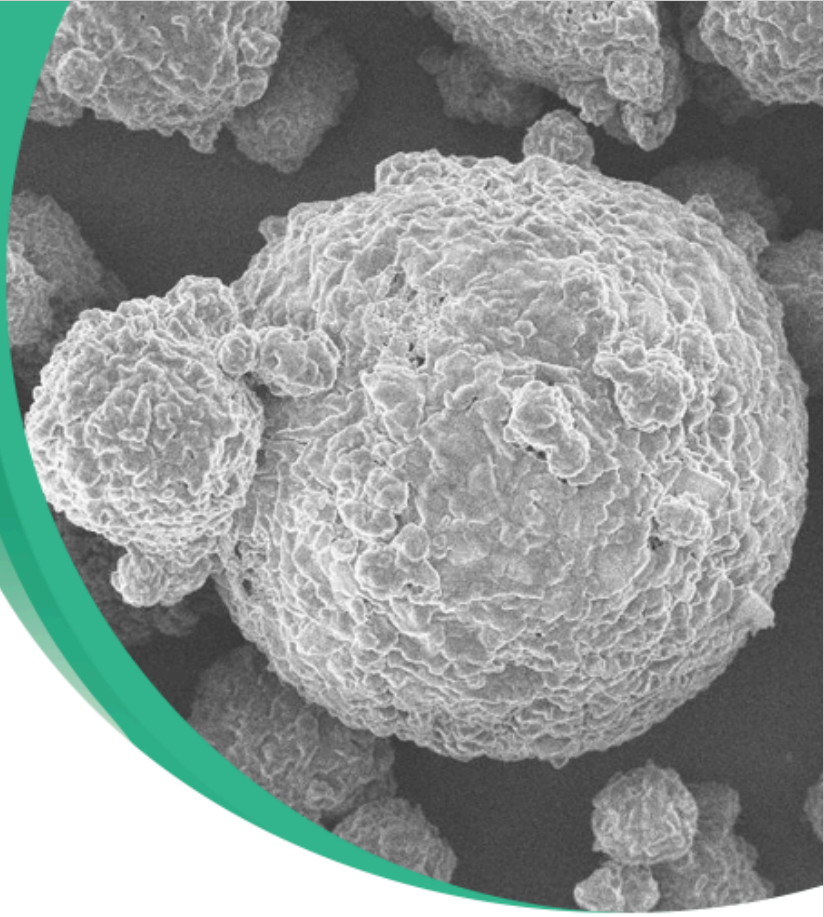
CREATIVE BIOMART®



Purification chromatography solution available - Say hello to Phosphate Cellulose Resin

Phosphate Cellulose resin (PcR) is an affinity media designed for concentration, purification of proteins and, enzymes such as nucleic acid related proteins. Cellulose phosphate is a cation exchange medium based on the establishment of electrostatic bonds between the positive charges on the protein and the negative charge on the phosphate group.

Why Chose our product?

- **Superior Performance:** PcR outperforms other resins with its excellent binding capacity, precision, and speed. It delivers high purity levels and creates an easy path to achieve your research goals.
- **Unsurpassed Quality:** Our product undergoes rigorous quality control processes to ensure consistent performance batch after batch.
- **Excellent Stability:** PcR is resistant to a broad range of pH and can be used for high-performance applications without compromising the integrity of the complex molecules.
- **Versatile Application:** From academic research institutions to industrial biotech companies, PcR is tailored to fit your specific needs.

Physical-Chemical Characteristics

Cat.No.	**Phosphate-001C**
Support matrix	Cellulose
Ligand	Phosphate ester
Ligand concentration	2 – 4 meq/g-Dry

Particle shape	Spherical & grain
Ion exchange capacity (meq /ml)	0.3 - 0.8
Lysozyme capacity (mg/ml)	≥ 20
MW exclusion limit (kD)	100 (PEG)
pH operating range	5-12
pH stability range	5-12
Operating pressure	< 2 bar (29 psi)
Recommended flow rate	50 – 250 cm/h
Supplied	Suspension in 20 % EtOH
Size	10 mL, 50 mL, 500 mL

Here's our quality showcase - Case Study

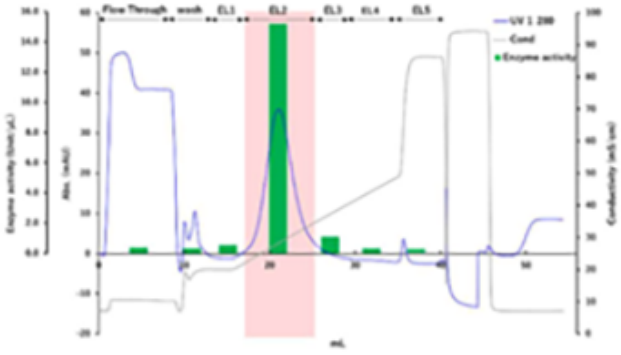


Fig1. Purification of T7 RNAP using Phosphate Cellulose Resin. Accumulation of T7 RNAP on EL2 fraction marked in red.

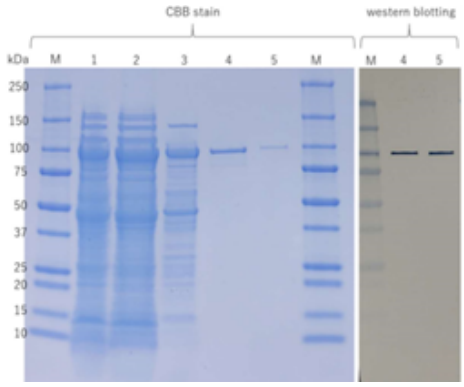


Fig2. SDS-PAGE, purity confirmation of T7 RNAP purified by chromatography

The activity of T7 RNAP on the eluted fraction P-EL2 is 70.2%, with a high recovery rate. The protein has decreased to 24.7%, it can be inferred that impurities have been efficiently removed. In addition, the enzyme activity value of P-EL2 is higher than before sample loading.

Get the Phosphate Cellulose Resin and enable your team to engage in high-quality research towards making groundbreaking discoveries. Your mission is to revolutionize the world with your research, and ours is to provide you with the tools to do so. Together, let's make science happen!

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Global Locations

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Global Delivery