

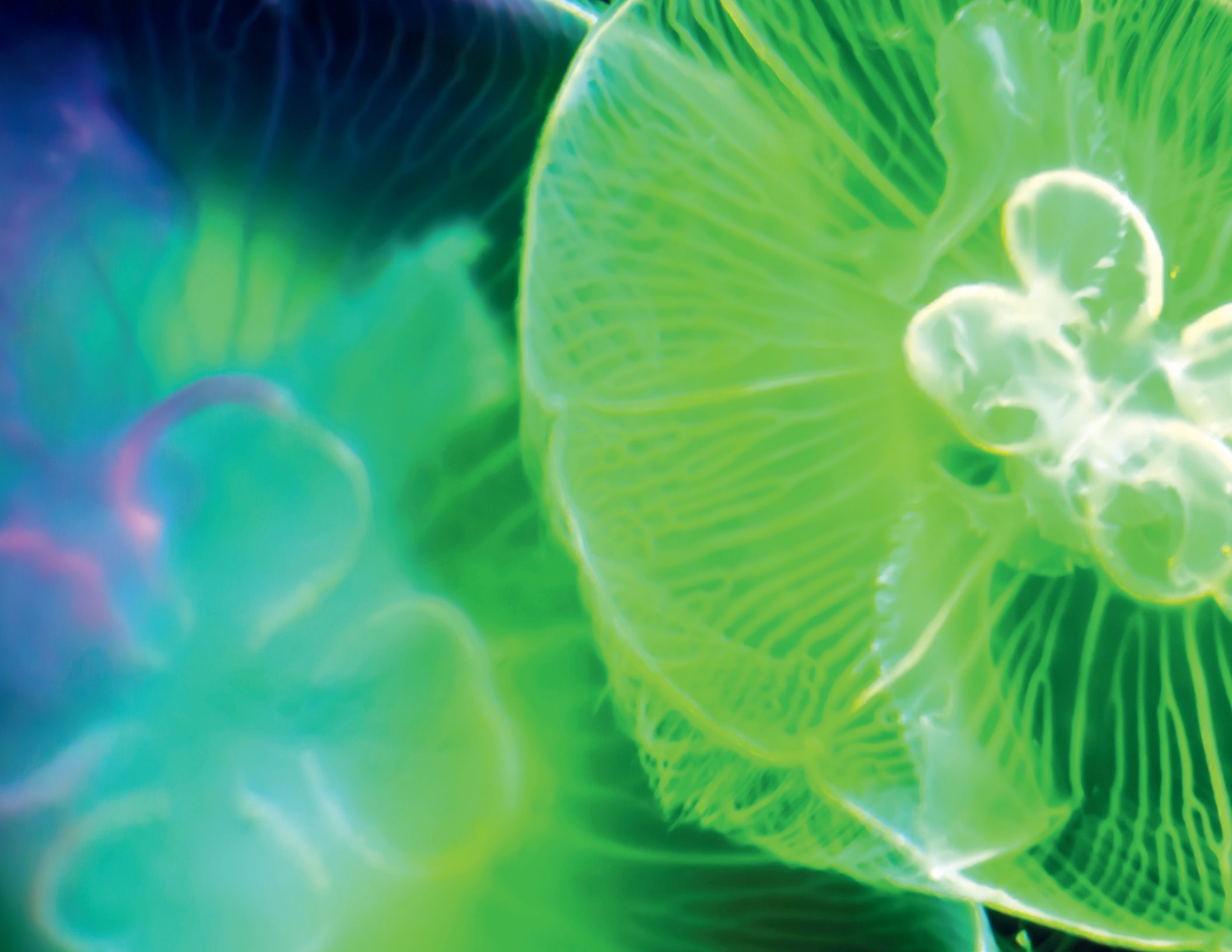


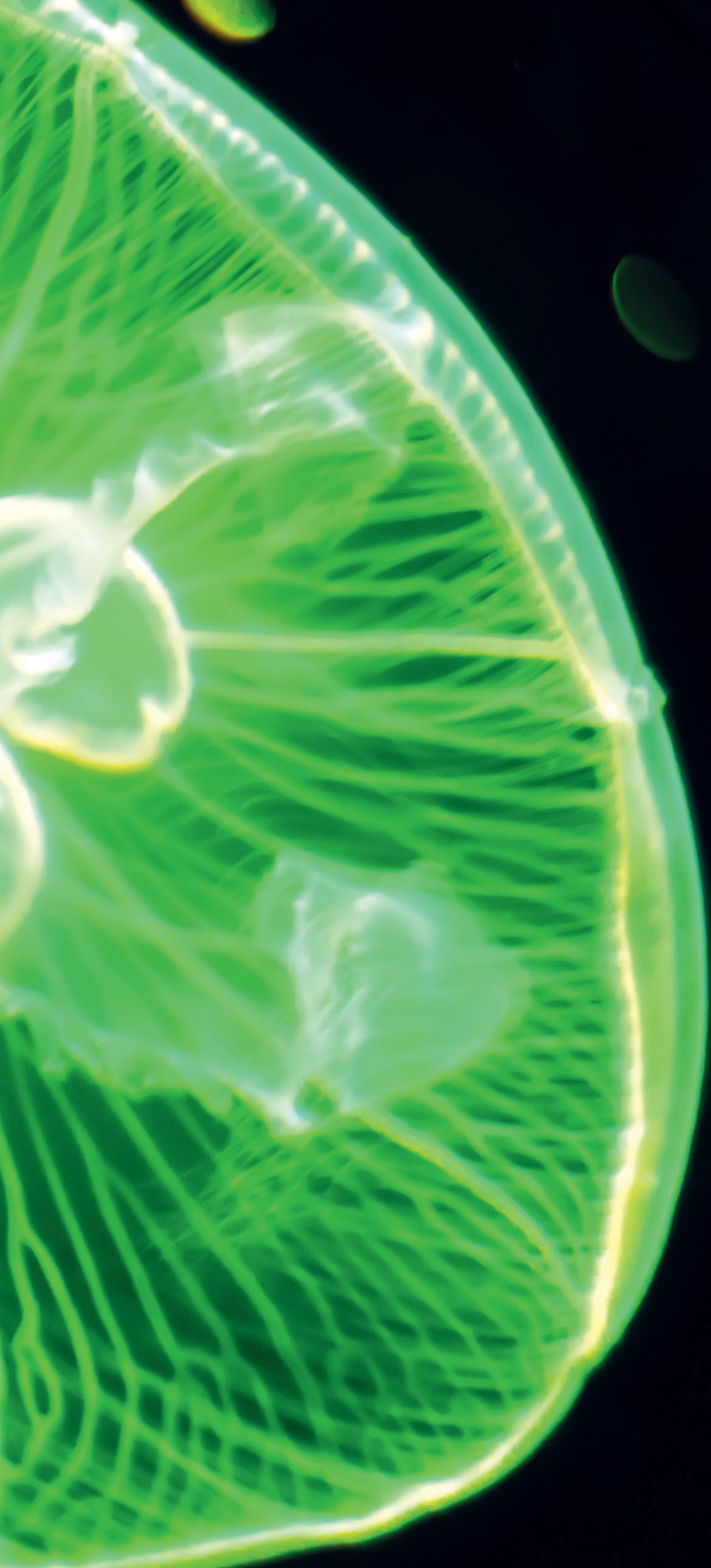
ZYMO RESEARCH

The Beauty of Science is to Make Things Simple



Column-Based Protein Purification





Protein purification is an essential step in research to identify and study the structure, function, and interaction of proteins. Technologies for protein purification are crucial for rapidly emerging fields where high-throughput screening of proteins with high purity but short processing times are necessary.

Affinity chromatography is a widely used technique to simplify the purification of recombinant proteins. For this, the protein of interest is fused to an affinity tag which mediates specific binding of the target protein to immobilized ligands. Frequently used affinity tags that facilitate very efficient purification of recombinant proteins include poly(His)-tag, Strep-tag® and maltose binding protein (MBP).

Zymo Research offers an extremely fast and highly innovative spin-column based technology to perform affinity purification of proteins. The Tag-Spin technology is ideal to purify recombinant proteins from cell-free extracts for screening protein functions.

The straightforward spin-wash-elute protocols ensure that pure recombinant protein is isolated in only a few minutes for small-scale protein studies.

PROTEIN PURIFICATION

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His-Spin Protein Miniprep™


Fast His-tagged protein purification

The His-Spin Protein Miniprep™ provides a fast method for His-tagged protein purification. The easy-to-follow procedure is based on a nickel-charged His-Affinity Gel (IMAC) protein purification, and the unique Zymo-Spin™ technology.

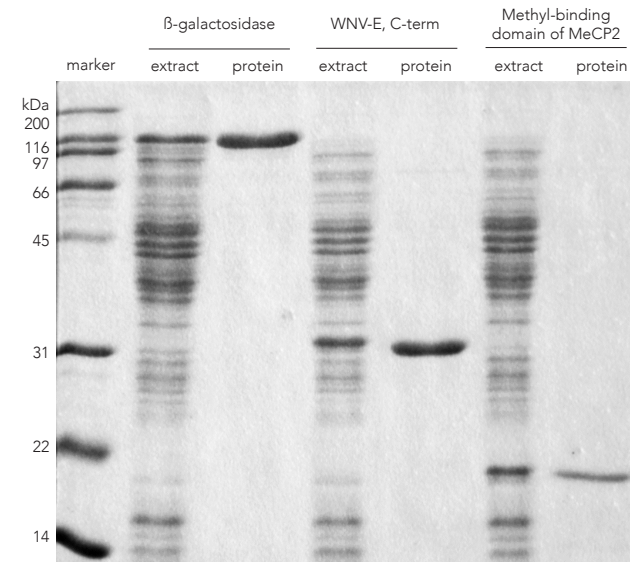
Up to 1 mg of His-tagged protein can be eluted into ≥ 100 µl of the provided His-Elution Buffer in only 5 minutes. The purified protein is ideal for enzymatic assays, protein biochemical analyses, SDS PAGE, as well as other protein based applications.

The straightforward spin-wash-elute protocol dramatically simplifies protein purification: get results in minutes, not hours!

SPECIFICATIONS



- ✓ **Purification Time** – 5 minutes
- ✓ **Capacity** – up to 1 mg
- ✓ **Protein Purity** – Electrophoretically pure
- ✓ **Elution Volume** – 100-200 µl (optimal 150 µl)
- ✓ **Elution Method** – Imidazol gradient
- ✓ **Affinity Matrix** – Nickel-charged agarose



E. coli cell extracts, containing indicated proteins expressed as a N-terminal hexahistidine fusion, and proteins purified using His-Spin Protein Miniprep™. Analysis by SDS-PAGE on a 15% gel, stained with Coomassie Blue®. Recombinant proteins were purposely expressed to a low level to demonstrate efficiency of the His-Spin Protein Miniprep™.

Product	Cat. No.	Size
His-Spin Protein Miniprep™	P2001	10 preps
	P2002	50 preps

Strep-Spin Protein Miniprep Kit™

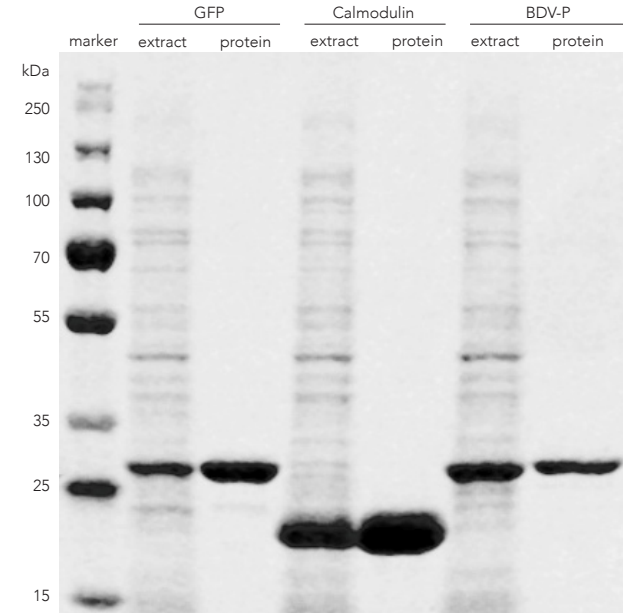
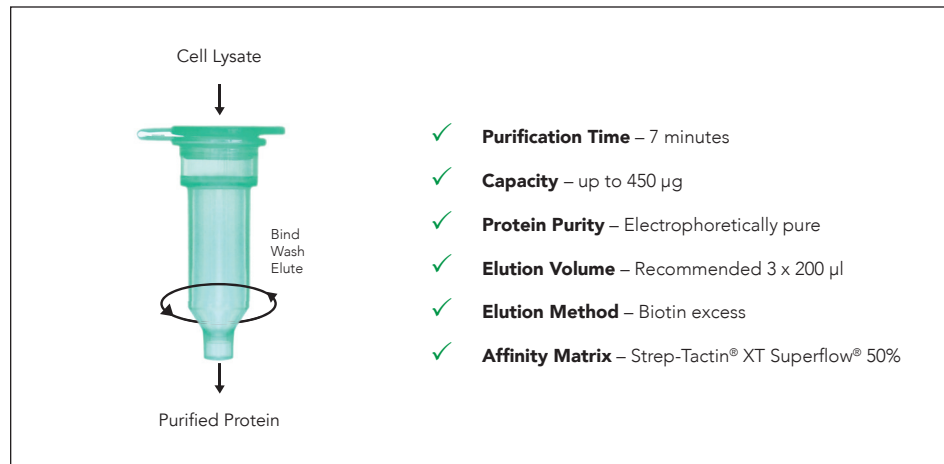
The easiest way to purify Strep-tagged proteins

The Strep-Spin Protein Miniprep Kit™ provides fast purification technology for Strep-tagged proteins. The procedure is based on a novel Strep-Tactin® XT Superflow® resin which binds efficiently to Twin-Strep-tag®, as well as single Strep-tag®.

Up to 450 µg of Strep-tagged protein can be eluted in only 7 minutes. The purified protein is ideal for enzymatic assays, protein biochemical analyses, SDS-PAGE, and other applications.

The straightforward spin-wash-elute protocol dramatically simplifies protein purification: get results in minutes, not hours!

SPECIFICATIONS



E. coli cell extracts, containing indicated proteins expressed as C-terminal Twin-Strep-tag® fusion, and proteins purified using Strep-Spin Protein Miniprep™. Analysis by SDS-PAGE on a 15% gel, stained with Coomassie Blue®. (GFP 28 kDa, Calmodulin 19.8 kDa, BDV-P 25.5 kDa).

Product	Cat. No.	Size
Strep-Spin Protein Miniprep Kit™	P2004 P2005	10 preps 50 preps

MBP-Spin Protein Miniprep Kit™

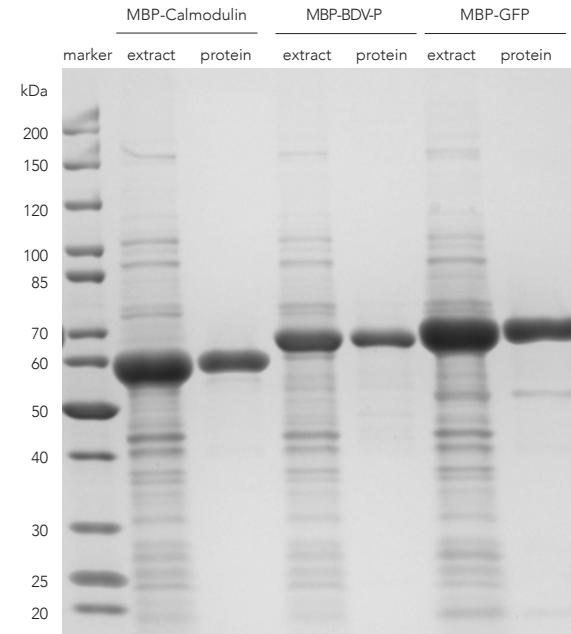
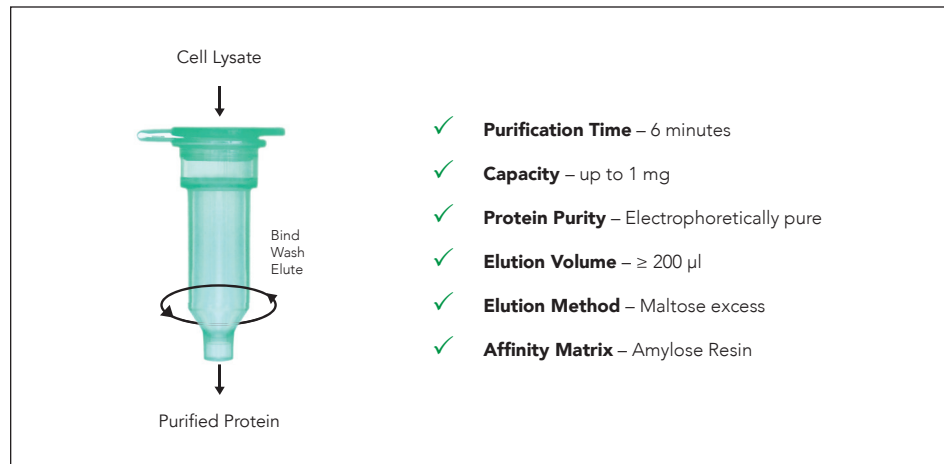
MBP-tagged proteins - quick & easy

The MBP-Spin Protein Miniprep Kit™ provides fast purification technology for MBP-tagged proteins. The easy-to-follow procedure is based on an affinity matrix composed of amylose resin to specifically bind proteins fused to maltose-binding protein (MBP), and the unique Zymo-Spin™ technology.

Up to 1 mg of MBP-tagged protein can be eluted into $\geq 200 \mu\text{l}$ of the provided MBP-Elution Buffer in only 6 minutes. The purified protein is ultra-pure and is ideal for enzymatic assays, biochemical analyses, SDS-PAGE, and other sensitive applications.

The straightforward spin-wash-elute protocol dramatically simplifies protein purification: get results in minutes, not hours!

SPECIFICATIONS



E. coli cell extracts, containing indicated proteins expressed as an N-terminal MBP-tag fusion and proteins purified using MBP-Spin Protein Miniprep™. Analysis by SDS-PAGE on a 4-20% gel, stained with InstantBlue™. (MBP-Calmodulin 55 kDa, MBP-BDV-P 65 kDa, MBP-GFP 69 kDa).

Product	Cat. No.	Size
MBP-Spin Protein Miniprep™	P2006	10 preps
	P2007	50 preps

Mix & Go![™] Competent Cells

Fast and Efficient Competent *E. coli*

- **Simple 20 Second Transformation:** No heat shock! Just add DNA and spread on a plate.
- **High Transformation Efficiencies:** Achieve 10⁹ – 10⁹ transformants per µg of plasmid DNA.
- **Versatile:** Excellent for general cloning, blue-white screening, and plasmid isolation.
- **Prepare Your Own:** Easy 3 step protocol to produce reliable chemically competent *E. coli*.



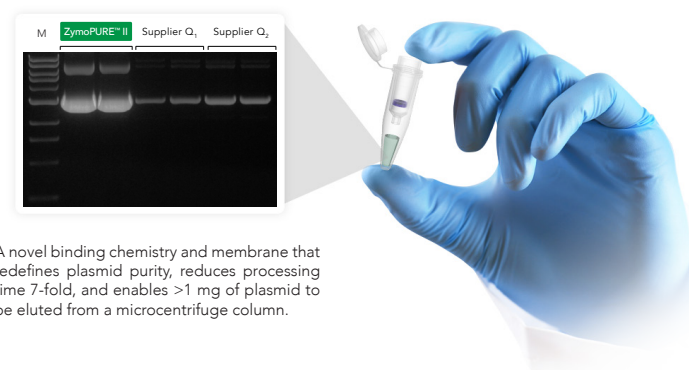
Product	Cat. No.	Size
Mix & Go! [™] <i>E. coli</i> Transformation Kit	T3001	up to 20 ml
Mix & Go! [™] <i>E. coli</i> Transformation Buffer Set	T3002	up to 60 ml
JM109 [*]	T3003	10 x 100 µl aliquots (10 tubes)
DH5 Alpha [*]	T3007 T3010	10 x 100 µl aliquots (10 tubes) 96 x 50 µl aliquots (PCR plate)
HB101 [*]	T3011	10 x 100 µl aliquots (10 tubes)
TG1	T3017	10 x 100 µl aliquots (10 tubes)
Zymo 10B [*]	T3019	10 x 100 µl aliquots (10 tubes)

^{*}96 x 50 µl aliquots (12 x 8-tube strips) format also available.

ZymoPURE[™] Plasmid Kits

Plasmid Purification Reinvented

- **Fastest:** Simple 20 minute Midi/Maxipreps. No gravity flow. No precipitation.
- **Highest Yield:** 6x more plasmid for Midi/Maxipreps and up to 100 µg for Minipreps.
- **Ultra-Pure:** Transfection-grade plasmid DNA is ready for all applications.



A novel binding chemistry and membrane that redefines plasmid purity, reduces processing time 7-fold, and enables >1 mg of plasmid to be eluted from a microcentrifuge column.

Product	Cat. No.	Size
ZymoPURE [™] Plasmid Miniprep Kit	D4208T	10 preps
	D4209	50 preps
	D4210	100 preps
	D4211	400 preps
	D4212	800 preps
ZymoPURE [™] II Plasmid Midiprep Kit	D4200	25 preps
	D4201	50 preps
ZymoPURE [™] II Plasmid Maxiprep Kit	D4202	10 preps
	D4203	20 preps
ZymoPURE [™] II Plasmid Gigaprep Kit	D4204	5 preps

Cat. No. B1015 Version 01



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