

## AFFINITY PURIFICATION OF SOLUBLE HIS-TAGGED PROTEINS

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1.	Lyse cells:
	a. Suspend the cell pellet in 30–35 ml of His-washing buffer with 10 mM PMSF.
	b. Sonicate cells in an ice-bath at 200 W for 6 min.
	c. Rotate the lysed solution for 1 h at 4°C.
	d. Centrifuge the cell lysate for approximately 13 min at 8000 rpm, 4°C.
2.	Bind protein to beads:
	a. Transfer the supernatant to 600 $\mu$ l of His-beads.
	b. Rotate the mixture overnight at 4°C.
	c. Collect the beads by centrifugation at 2000 rpm for 10–30 seconds, 4°C. The protein-bound beads are collected in eppendorf tubes.
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#### **Buffers Needed**

His-washing buffer	1000 ml
20 mM Imidazole	1.36 g
1x PBS buffer	1000 ml
Adjust to pH 7.0	

His-elution buffer	1000 ml
300 mM Imidazole	20.42 g
10% Glycerol	100 ml
1x PBST buffer	900 ml
Adjust to pH 7.0	

1000 ml		
8.24 g		
2.04 g		
3.98 g		
Add ddH2O to 1000 ml		
Adjust to pH 7.4		