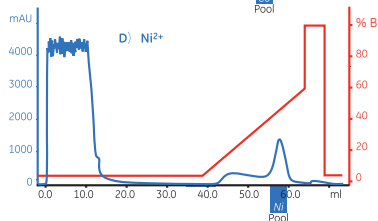
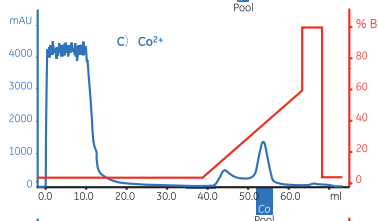
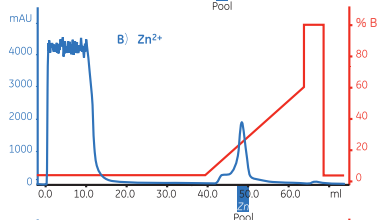
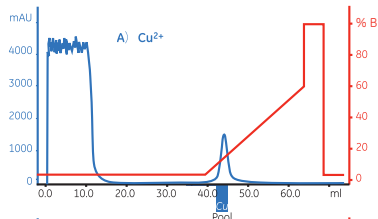


# 4つの異なる金属イオンをチャージさせた HiTrap IMAC HP (1ml) による His-tag タンパク質の精製



Column : HiTrap IMAC HP 1 ml, charged with :

A)  $\text{Cu}^{2+}$  B)  $\text{Zn}^{2+}$  C)  $\text{Co}^{2+}$  D)  $\text{Ni}^{2+}$

Conditions were otherwise the same for the four purifications

Sample : Histidine-tagged YNR064c, (Mr 33,700) in *Pichia pastoris* extract including 20 mM imidazole

Sample volume : 10 ml

Binding buffer : 20 mM sodium phosphate, 500 mM NaCl, 20 mM imidazole, pH 7.4

Elution buffer : 20 mM sodium phosphate, 500 mM NaCl, 500 mM imidazole, pH 7.4

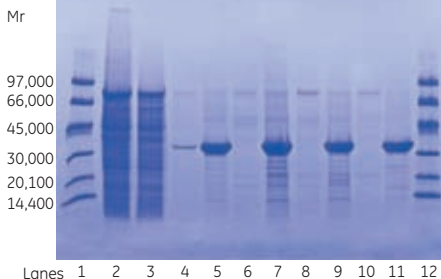
Flow rate : 1 ml/min

Gradient : 4-60% elution buffer (20-300 mM imidazole) in 25 ml  
100% elution buffer (500 mM imidazole) in 5 ml

Detection

System : ÅKTAexplorer 10

E)



1. LMW markers
2. Start material, diluted 1:10
3. Flowthrough, diluted 1:10, Cu
4. Wash, Cu
5. Eluted pool, Cu
6. Wash, Zn
7. Eluted pool, Zn
8. Wash, Co
9. Eluted pool, Co
10. Wash, Ni
11. Eluted pool, Ni
12. LMW markers