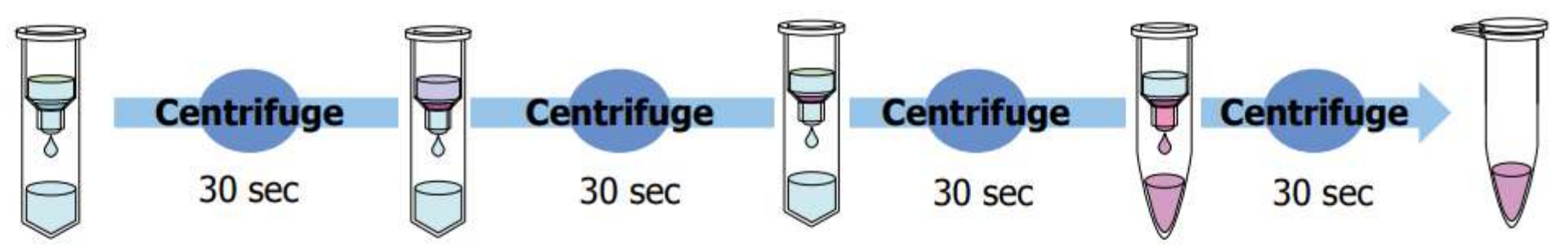


**Sample Preparation**  
 500  $\mu\text{L}$  25  $\mu\text{g}/\text{mL}$   $\text{Cu}^{2+}$   
 Centrifugation  
 Speed : 3,000 x g



**1. Conditioning**

Add 200  $\mu\text{L}$  water  
 ↓ Centrifuge  
 Add 200  $\mu\text{L}$  2N- $\text{HNO}_3$   
 ↓ Centrifuge  
 Add 400  $\mu\text{L}$   
 100 mM  $\text{CH}_3\text{COONH}_4$   
 (pH 5.5)

**2. Adsorption**

Add 500  $\mu\text{L}$   
 25  $\mu\text{g}/\text{mL}$   $\text{Cu}^{2+}$

**3. Rinsing**

Add 100 mM  
 $\text{CH}_3\text{COONH}_4$   
 (pH 5.5)

**4. Elution**

Add 500  $\mu\text{L}$   
 2N- $\text{HNO}_3$

**Purified Sample**

**Recovery rate of  $\text{Cu}^{2+}$  using Zeeman GF-A-AF system**

Number of Injections	Volume of solvent introduced	Recovery rate
1	0.8 mL	98 ± 4 %
2	1.6 mL	97 ± 5 %
3	2.4 mL	95 ± 5 %
4	3.2 mL	95 ± 5 %
5	4 mL	94 ± 3 %

**Retention Characteristics of Metal Element using Iminodiacetic Acid Functional Groups with Various pH**

