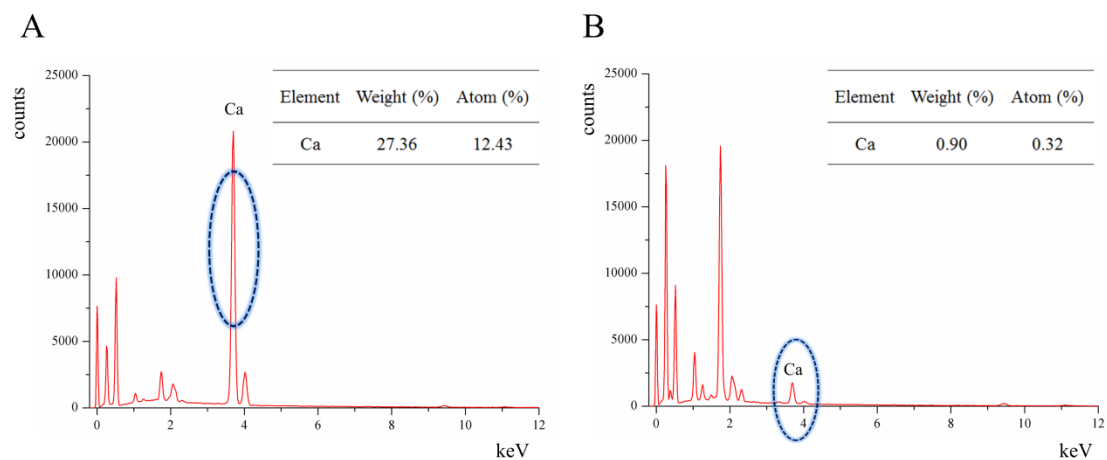


### Supplementary Information 1: The energy-dispersive X-ray analysis



**Fig. S1.** The energy-dispersive X-ray analysis of (A)  $\text{CaCO}_3$ (BSA) particles and (B) BSA-gel-capsules(MPs). There was little calcium in BSA-gel-capsules(MPs), indicating that  $\text{CaCO}_3$  was almost completely removed after treatment with EDTA.