

Supplementary Materials

Tannylated Calcium Carbonate Materials with Antacid, Anti-inflammatory, and Antioxidant Effects

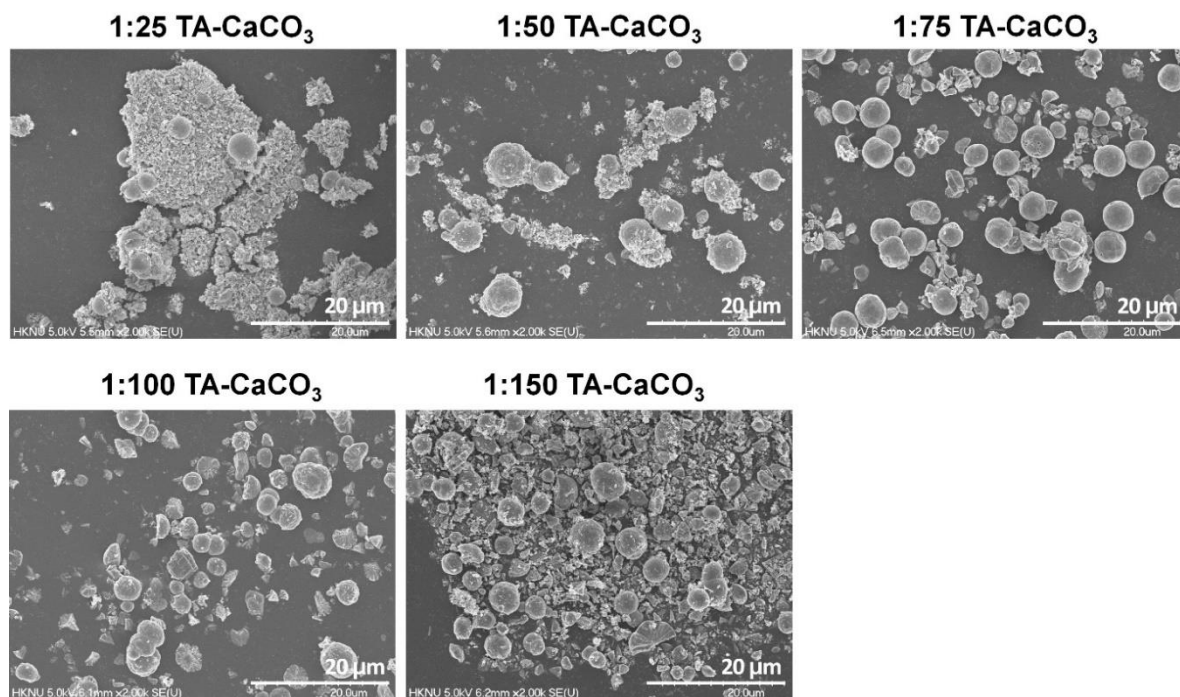


Figure S1. SEM images of the TA-CaCO₃ materials synthesized at different molar ratios of TA and CaCl₂/Na₂CO₃.

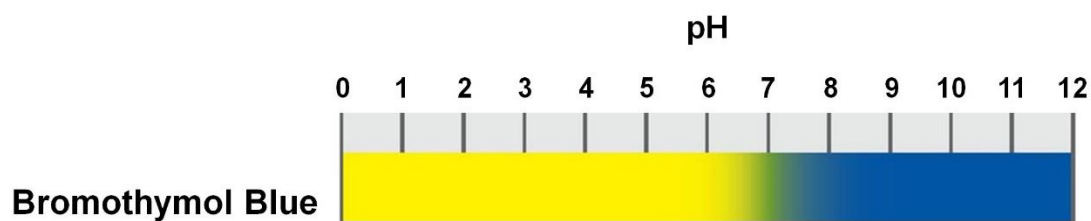


Figure S2. Color changes of BTB at different pH values.

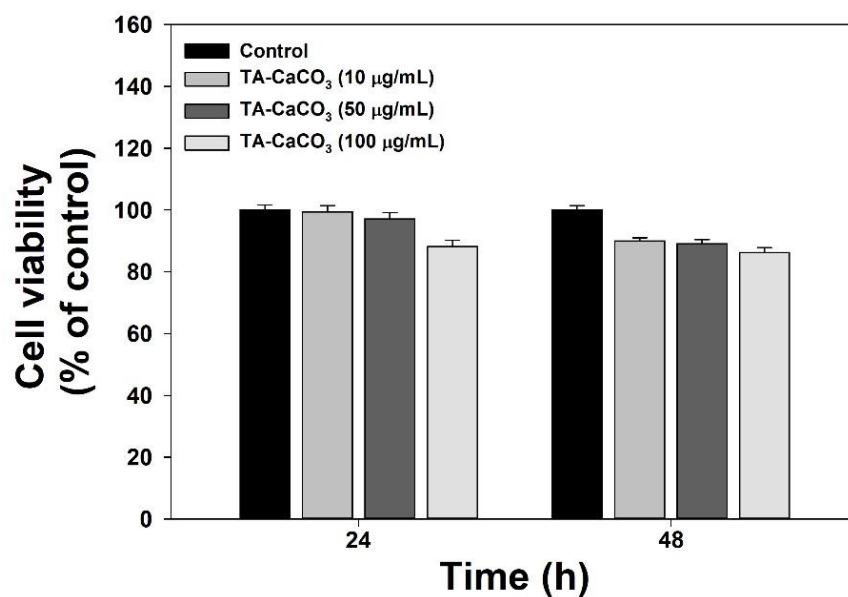


Figure S3. In vitro cytotoxicity of 1:75 TA-CaCO₃ against chondrocytes.

Table S1. RT-PCR primer sequences for genes related to pro-inflammatory factors.

Genes	Primer (forward) 5'→3'	Primer (reverse)
<i>COX-2</i>	TAT CAG GTC ATC GGT GGA GA	CGA AGC CAG ATG GTA GCA TA
<i>IL-1β</i>	CCA CCT CCA GGG ACA GGA TA	AAC ACG CAG GAC AGG TAC AG
<i>MMP-3</i>	ACC TGT CCC TCC AGA ACC TG	AAC TTC ATA TGC GGC ATC CA
<i>MMP-13</i>	GGT CCT TGG AGT GGT CAA GA	AAG GAG CAT GGC GAC TTC TA
<i>IL-6</i>	GCC TTC GGT CCA GTT GCC	CTC AGG GCT GAG ATG CCG
<i>TNF-α</i>	GAC CCT CAC ACT CAG ATC ATC TTC T	TGC TAC GAC GTG GGC TAC G