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Supporting Information

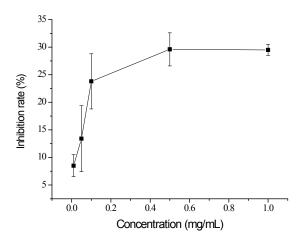


Figure S1. Inhibitory effects of chitin nanowhiskers on α -amylase.

The inhibitory effects of different concentrations of chitin nanowhiskers on the activity of α -amylase were investigated. The inhibitory potencies of chitin nanowhiskers on α -amylase increased with the increase in chitin nanowhiskers (Figure S1). However, in the test concentration range, the maximum inhibitory rate for chitin nanowhiskers was 29.6%.

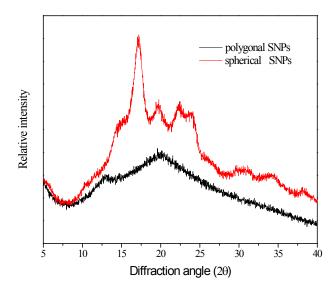


Figure S2. X-ray diffraction patterns of spherical SNPs and polygonal SNPs.

The X-ray diffraction patterns of spherical SNPs and polygonal SNPs are shown in Figure S2. Several peaks were observed at $2\theta = 5.6^{\circ}$, 17.1° , 22.5° , and 24.3° for spherical SNPs, thus exhibiting typical peaks of a B-type crystalline structure, and the relative crystallinity was 55.31%. Conversely, the polygonal SNPs with diffraction peaks at 13.5° and 20.8° exhibited V-type diffraction peaks and the relative crystallinity was only 25.2%.