

Enzyme Immobilization and Characterization of Surface Modified Porous Boehmite Particles

염혜숙, 김희택*, 김기도¹
한양대학교; ¹나노닉스
(khtaik@hanyang.ac.kr*)

Synthesis of porous Boehmite particles suitable for enzyme immobilization were performed by precipitation of aluminium nitrate ($\text{Al}_3(\text{NO}_3)_3 \cdot 9\text{H}_2\text{O}$) with ammonia water (NH_4OH). Then, The adsorption behavior of bovine serum albumin (BSA) on Boehmite was investigated. Amino-silane was covalently coupled to the surface of the Boehmite particles and activated by glutaraldehyde. The BSA adsorption ability was characterization by UV/VIS spectroscopy.