Direct Observation of Extraction of Cu(II) into Microcapsules Containing 8-Quinolinol by Use of Capillary and Chemiluminescence Detection

Kazuhiko Tsukagoshi, Yukiteru Ouji, and Riichiro Nakajima

We developed a new method using a fused-silica capillary and CL detection for observing extraction behavior of a metal ion into the microcapsules containing 8-quinolinol. An aliquot of Cu(II) aqueous solution in the emulsion including the microcapsules was delivered by siphoning through the capillary to CL detection cell. A direct observation could be performed without any pretreatments of the emulsion, such as filtrations and sedimnetations.