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Continuous Separation Method with Liquid Particle Extractor : Enantioseparation of (±)-Mandelic Acid*

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Continuous enantioseparation of (±)-mandelic acid was performed by dual-flow countercurrent extraction. The optimum extraction condition was calculated by a semi-empirical computational method. Use of the two-phase system composed of 0.2 mM cupric acetate aqueous solution and 1-butanol containing 10 mM *N*-dodecyl-L-proline copper (II) complex as a chiral separator allowed (±)-mandelic acid to be separated continuously. An HPLC analysis showed that (–)- form was extracted into the organic phase and (+)- form was recovered from the aqueous extract more than 99.9% ee, at the stationary state.

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