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Liquid Particle Chromatography: Measurement of Efficiencies and Influencing Factors on Resolution*

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The efficiencies of a liquid particle chromatography were measured using salicin and phenylglucoside as samples under different conditions. The factors which had influences on resolution were the rotation of inner pipe, flow rate of mobile phase and temperature. Optimum condition were 600 r.p.m., 0.55 ml/min and 25°C on 1-butanol (saturated with water : as stable phase) and water (saturated with 1-butanol : as mobile phase), and 120 theoretical plates per column length of 60 cm was observed.

As applications, separation of four benzenesulfonic acid derivatives and chiral separation of DL-mandelic acid were depicted.

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