

A Simple High Speed Countercurrent Chromatography

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Unlike the solid state particle packed column of HPLC, high speed countercurrent chromatograph(HSCCC) use liquid state adsorbent. HSCCC uses a novel approach of using continuously deformable fluid adsorbent which are held stationary by centrifugal force by high speed planetary rotation of the tube coils. Using some hexane based oil phase and water based phase, we were able to show two component mixture can be separated easily with HSCCC. The ELSD(Evaporative Light Scattering Detector) was used. RPM of 600 was used to separate the mixtures. Stationary phase was hexane and mobile phase was water. We show the effect of RPM, mobile phase flow rate, and composition of stationary and mobile phase compositions histories.