

Abstract

ASYMMETRIC POROUS ADSORPTIVE BEAD

The present invention provides an asymmetric chromatography media suitable for separations applications, particularly as packed bed, fluidized bed or magnetized bed chromatography media. The asymmetric chromatography media comprises asymmetric particles, preferably beads, having at least two distinct, controlled pore size distributions, one in an internal region of the particle and the other in an external region or coating on the particle. These distinct pore size distributions can be modified with uniform or alternatively unique functional groups or mixtures of functional groups. The invention allows for the control over pore size distribution within an asymmetric porous particle by providing a distinct internal region in the form of a bead, and a distinct external region in the form of a coating on the bead.

Selected Drawing: Fig. 2