

Title (en)
METHOD FOR OPTIMALLY SIZING CELLS OF A CENTRIFUGAL PARTITION CHROMATOGRAPHY DEVICE

Title (de)
VERFAHREN ZUR OPTIMALEN GRÖSSENBESTIMMUNG VON ZELLEN EINER ZENTRIFUGATIONSVERTEILUNGSCROMATOGRAPHIE-VORRICHTUNG

Title (fr)
METHODE POUR UN DIMENSIONNEMENT OPTIMAL DES CELLULES D'APPAREILS DE CHROMATOGRAPHIE DE PARTITION CENTRIFUGE

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Application
EP 05739418 A 20050317

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Abstract (en)
[origin: WO2005093406A1] The invention relates to a method for sizing the cells of a liquid-liquid centrifugal chromatography column (CPC column) consisting of stacked discs on which the series-connected cells are engraved by small channels. The stack rotation produces a high centrifugal acceleration field which makes it possible to maintain a liquid phase in an immobile, called stationary, state while a mobile phase flows along the CPC column. The cells are embodied in three-dimensional form in such a way that two dimensions (L, l) thereof are oriented in a plane substantially normal to the disc axis of rotation (OMEGA) and the third dimension (e) is oriented in a direction substantially parallel to said axis of rotation and is selected such that it is at least equal to one of two dimensions (L, l), thereby obtaining a higher efficiency. In order to scale devices, the cell sizes are modified ensuring that in any case said third dimension (e) is privileged in such a way that it is as large as possible. Said invention can be used for designing analytic or preparative chromatography devices.

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CPC (source: EP KR US)
G01N 30/00 (2013.01 - KR); **G01N 30/02** (2013.01 - KR); **G01N 30/42** (2013.01 - EP KR US)

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