

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

Publication

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Application

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Priority

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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.

IPC 8 full level

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CPC (source: EP KR US)

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