

ABSTRACT OF THE DISCLOSURE
SEPARATION MATERIALS FOR CHROMATOGRAPHY AND
ELECTROPHORESIS APPLICATIONS COMPRISING CYCLODEXTRINS
CROSS-LINKED AND CHEMICALLY BONDED TO A SUPPORT VIA
URETHANE LINKAGES

The present invention relates to chiral separation phases comprising cross-linked cyclodextrins and methods for preparing them. The cyclodextrins are cross-linked by a plurality of urea linkages and also attached to a solid support by urea linkages. Three methods for preparing the immobilized, cross-linked cyclodextrins, having in common a
5 reaction of a 6^A, 6^B, 6^C, 6^D, 6^E, 6^F, 6^G heptakisazido-cyclodextrin with an amine. The 6^A, 6^B, 6^C, 6^D, 6^E, 6^F, 6^G heptakisazido-cyclodextrin can be perfunctionalized at the 2,3- hydroxyl wherein R is alkyl, aryl, ester or carbamate.

(Fig. 1 is to be published)