

Title (en)
FRONTAL AFFINITY CHROMATOGRAPHY/MALDI TANDEM MASS SPECTROMETRY

Title (de)
FRONTALAFFINITÄTSCHROMATOGRAPHIE/MALDI-TANDEM-MASSENSPEKTROMETRIE

Title (fr)
CHROMATOGRAPHIE D'AFFINITE FRONTALE/SPECTROMETRIE DE MASSE EN TANDEM MALDI

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Application
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Abstract (en)
[origin: WO2005114170A1] Sol-gel derived monolithic silica columns containing entrapped dihydrofolate reductase were used for frontal affinity chromatography of small molecule mixtures. The output from the column combined with a second stream containing the matrix molecule (HCCA) and was directly deposited onto a conventional MALDI plate that moved relative to the column via a computer controlled x-y stage, creating a semi-permanent record of the FAC run. The use of MALDI MS allowed for a decoupling of the FAC and MS methods allowing significantly higher ionic strength buffers to be used for FAC studies, which allowed for better retention of protein activity over multiple runs.

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Citation (search report)
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Designated contracting state (EPC)
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