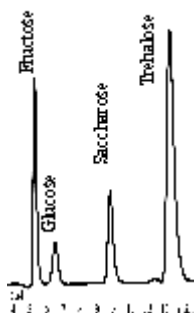


## Multospher-APS-HP

Multospher-APS-HP is the new Amino-(NH<sub>2</sub>)-HPLC phase from CS-Chromatographie Service GmbH. The ultra high purity silica gel of the Multospher 120 HP series combined with a perfected aminopropyl binding result in a separation phase matching the requirements of numerous amino phase applications on a very high level.

### Normal Phase Chromatography:

Polar compounds that are sufficiently soluble in nonpolar mobile phases can be analyzed effectively on a Multospher-APS-HP column by using mobile phase mixtures such as hexane/isopropanol. Thereby the columns provide a reasonable alternative to pure silica gel phases with a slightly changed selectivity. Areas of application are e.g. aromatics, anilines, esters of fatty acids, chlorinated pesticides, etc.



### Reversed Phase Chromatography (HILIC):

Polar compounds may also be separated on Multospher-APS-HP columns using mobile phases well-known from reversed phase chromatography. This method for separation, also known as HILIC (Hydrophilic Interaction Chromatography) or ANP (Aqueous Normal Phase), utilizes various interactions. This mode has proven itself in chemical analysis of saccharides for a long time already. By use of premium phases like Multospher-APS-HP, the area of application has been expanded to numerous polar compounds.

### Ion Exchange Chromatography:

In an acidic environment in R-NH<sub>3</sub><sup>+</sup> form, the amino group of the Multospher-APS-HP phase can be used as weak anion exchanger. Using common buffers like diluted phosphate buffers e.g. anions or organic acids can be identified.

