

AppliChrom® ABOA SugarSep

03/09/2015 Application note

Wine analytics

Analysis of the standard solution to the wine analytics, label Red (Sugar spectrum/glycerol/ethanol)

HPLC- Column: AppliChrom ABOA SugarSep-Ca, 300x8mm

Detektor: HPLC-RI.

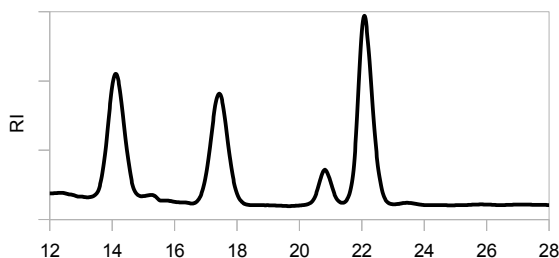


Abb1: AppliChrom ABOA SugarSep-Ca, 300x8mm, H₂O, 80°C, 0,5ml/min

Result:

The sugar glucose and fructose are separated, as glycerol and ethanol. There are also other components ("restless base line").

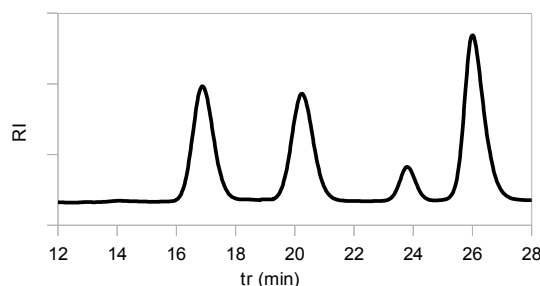


Abb2: AppliChrom ABOA SugarSep-Ca, 300x8mm + „Trapcolumn“ AppliChrom ABOA TSW, 50x8mm, H₂O, 80°C, 0,5ml/min

Solution: AppliChrom ABOA SugarSep-Ca + „Trapcolumn“

Result:

Clean separation of glucose, fructose, glycerol and ethanol, no restless base line or no interference peaks.

13/08/2015 Application note

Accelerated analysis of the standard solution for wine analysis, label red (sugar spectrum/glycerol/ethanol)

HPLC- Column: AppliChrom ABOA SugarSep-Ca, 150x8mm

Detektor: HPLC-RI.

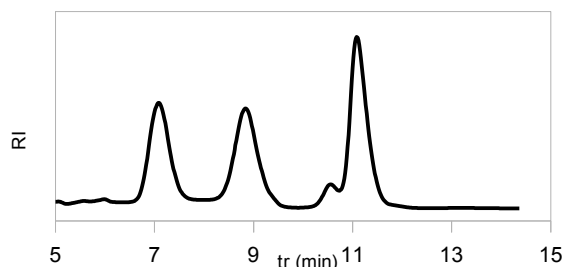


Abb1: AppliChrom ABOA SugarSep-Ca, 150x8mm, H₂O, 80°C, 0,5ml/min

Result:

Speed was by shortening the HPLC column length of 300x8 to 150x8mm.

The resolution of glycerol and ethanol is however not satisfactory but the baseline is still slightly noisy (Figure1).

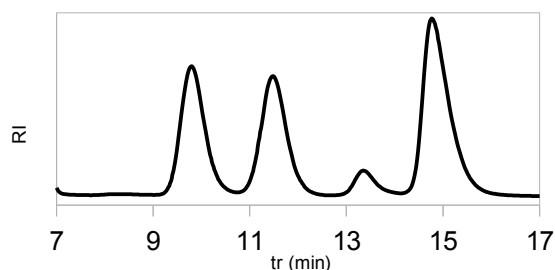


Abb2: AppliChrom ABOA SugarSep-Ca, 150x8mm + „Trapsäule“ AppliChrom ABOA TSW, 50x8mm, H₂O, 80°C, 0,5ml/min

Solution: AppliChrom ABOA SugarSep-Ca + „Trapcolumn“

Result:

Increased speed through the use of shortened AppliChrom ABOA SugarSep-Ca and improved resolution of glycerol and ethanol with the additional "Trapcolumn" AppliChrom ABOA TSW, 50x8mm, as well as the suppression of unwanted signals (fig 2).

Order information:

SASCA101508	HPLC-Column AppliChrom® ABOA SugarSep-Ca, 10µ 150mm x 8mm	Price available upon request
SASCA103008	HPLC-Column AppliChrom® ABOA SugarSep-Ca, 10µ 300mm x 8mm	Price available upon request
SASCA10508	Precolumn AppliChrom ABOA SugarSep-Ca, 10µ, 50mm x 8mm	Price available upon request
SATSW508	„TrapColumn“ AppliChrom ABOA TSW, 50x8mm, , 50mm x 8mm	Price available upon request