



Sugars

Analysis of sugars as hexa acetates

Application Note

Food Testing & Agriculture

Authors

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Introduction

GC analysis of ten sugars as hexa acetates is accomplished using an Agilent FactoFour VF-200ms column in 36 minutes.



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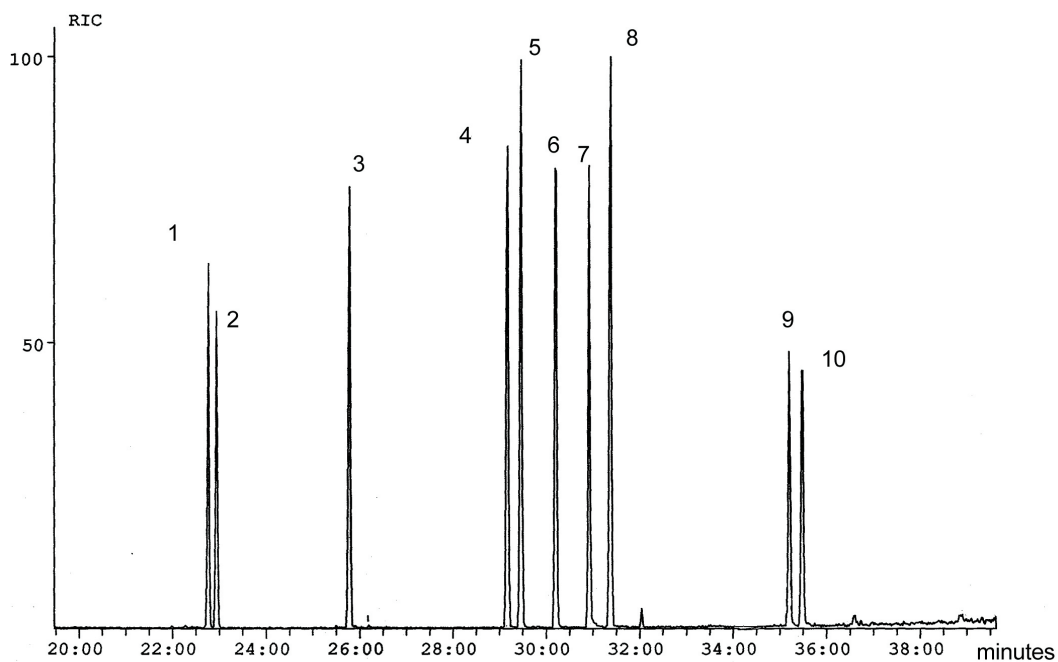
Conditions

Technique : GC/MS
Column : Agilent FactorFour VF-200ms
0.25 mm x 30 m (df = 0.10 μ m) (Part No. CP8857)
Temperature : 60 °C \rightarrow 130 °C, 8 °C/min \rightarrow 325 °C, 4 °C/min
Carrier Gas : He,
Pressure program : 80 kPa
Injector : Moving Needle, T= 280 °C
Detector : MS-full Scan, T=250 °C
Sample Size : 1 μ L
Concentration : 1 - 4 ng/uL
Solvent : acetone
Derivatization : sugars are first reduced by NaBH₄ 1% aqueous solution and then per-acetylated by the use of pyridin/acetic-anhydride.

Courtesy : Herr Peter Kaese and Herr Werner Mink,
University Giessen, Institut für Biochemie

Peak identification

1. fucitol
2. rhamnitol
3. xylitol
4. mannitol
5. galactitol
6. glucitol
7. phthalate (impurity)
8. inositol
9. glucosaminitol
10. galactosaminitol



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This information is subject to change without notice.

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Printed in the USA

31 October, 2011

First published prior to 11 May, 2010

A02237



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