

Use of Short, Small-Particle Columns for Fast and Efficient Separations

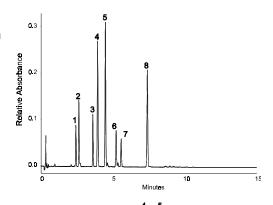
Application

Agrichemical

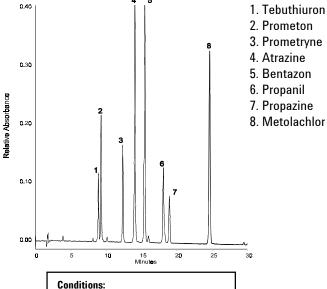
Robert Ricker

Herbicide Mixture

ZORBAX SB-C8 (4.6 x 75 mm) 3.5µm (P/N: 866953-906) Flow Cell 5mm, 2.5µl 20-60% B in 10 min 2 mL/min.



ZORBAX SB-C8 (4.6 x 150 mm) 5μm (P/N: 883975-906) Flow Cell 10mm, 8μl 20-60% B in 30 min. 1 mL/min.



Column: ZORBAX SB-C8 Mobile Phase:

BACN

A H20 to pH 2.0 with TFA

Highlights

- High-speed, high-resolution separation of a herbicide mixture in less than 8 minutes.
- Smaller particle size (3.5μm) leads to separations of similar efficiency when compared to 5μm particles in columns of twice the length.
- Increased flow rate on the 3.5µm, 75 mm column further decreases the runtime. Efficiencies are nearly equivalent to those of the 5µm 150 mm column run at a slower flow rate.



Robert Ricker is an application chemist based at Agilent Technologies, Wilmington, Delaware.

For more information on our products and services, visit our website at: www.agilent.com/chem

Copyright[©] 2002 Agilent Technologies, Inc. All Rights Reserved. Reproduction, adaptation or translation without prior written permission is prohibited, except as allowed under the copyright laws.

Agilent shall not be liable for errors contained herein or for incidental or consequential damages in connection with the furnishing, performance, or use of this material.

Information, descriptions, and specifications in this publication are subject to change without notice.

Printed in the USA April 25, 2002 5988-6288EN

