

ZIC[®]-HILIC Separation of Moniliformin

Chromatographic Conditions

Column: ZIC[®]-HILIC, PEEK 150 x 4.6 mm, 3.5 μm, 200 Å (P/N 2702-155)

Injection: 3 μL

Detection: Diode Array and Negative ESI-MS

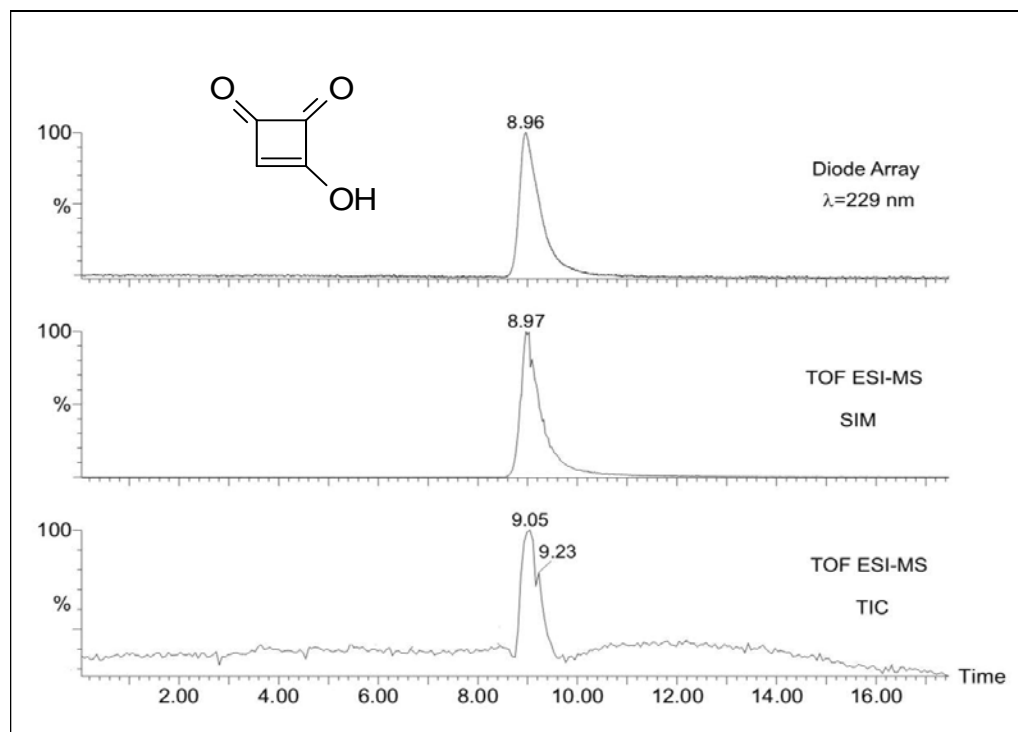
Flow Rate: 0.5 mL/min

Mobile Phase (v/v): A: Acetonitrile

B: Ammonium Formate 100 mM, pH 6.4

Linear gradient starting at 95% A and 5% B, increasing to 15% B in 15 min.

Thereafter, increasing flowrate to 1.0 mL/min and B to 50% in 1 minute, and holding for 4 minutes. Then reverting to start conditions in 1 minute, and keeping for 2 min and then decreasing the flowrate to 0.5 mL/min



Chromatographic Data

No.	Compound		Time (min)	Retention factor*
	t_0	void volume	3.0	-
1	Moniliformin	720 ng/ml	9.0	2.0

by courtesy of: K. F. Nielsen, Center for Microbial Biotechnology (CMB)
 BioCentrum-DTU Technical university of Denmark, Lyngby, Denmark

A method for quantification of Moniliformin in maize plants using ZIC[®]-HILIC separation and diode array detection - negative electrospray mass spectrometry can be found at:
J. Agric. Food Chem., (2007) in press (on web Oct. 26)