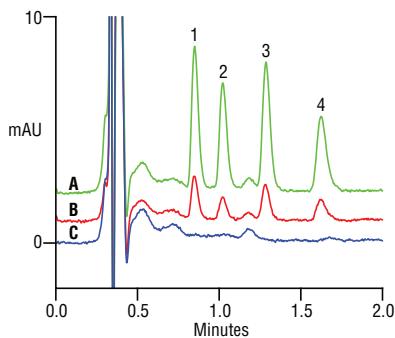


## Recovery of Nitrofuran Antibiotics from Pet Food on a Thermo Scientific™ Acclaim™ 120 C18 RSLC Column



LC System:	Thermo Scientific™ Dionex™ UltiMate™ 3000 RS
Column:	Thermo Scientific™ Acclaim™ 120 C18, 2.2 µm, 2.1 x 50 mm
Mobile Phase:	Acetonitrile:10 mM ammonium acetate pH 5.0, 20:80 v/v; isocratic
Flow:	0.41 mL/min
Temperature:	30 °C
Injection:	1.2 µL
Detection:	DAD-3000 RS, UV at 365 nm 5 Hz data rate, 0.06 s time const.
Samples:	A. Dry pet food spiked at 20 mg/kg B. Dry pet food spiked at 5 mg/kg C. Dry pet food control
Sample Prep:	– 2.0 g ground guinea pig feed in a 20 mL vial – Add 6 mL water and let stand 5 min – Add 14 mL methanol:acetonitrile 1:1 and extract for 50 min. – Pass through cleanup cartridge containing 0.5 g of neutral alumina; discard first 0.5 mL, retain next 0.7 mL
Peaks:	Recovery
	1. Nitrofurazone 105%
	2. Nitrofurantoin 69%
	3. Furazolidone 99%
	4. Furaltadone 112%
Reference:	R.J. McCracken, D.G. Kennedy: <i>J. Chromatogr. A</i> , <b>1997</b> , 771:349-354.

25648

Nitrofuran antibiotics are now banned from use in many parts of the world, making it necessary to monitor for illegal or accidental contamination of animal feeds. The Acclaim 120 C18 RSLC column will resolve these four common drugs easily even in a complex feed matrix. The 2  $\mu$ m RSLC technology now lets this analysis be finished in only 2 minutes.