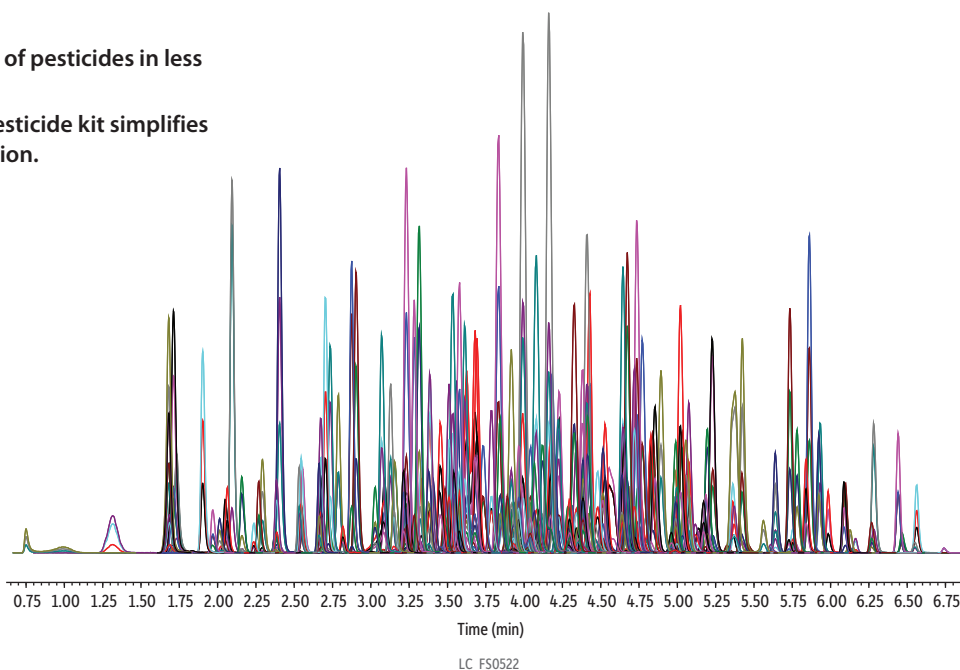


LC Multiresidue Pesticide Mix Extracted from Celery with QuEChERS Slim Pouch on Raptor ARC-18 by LC-MS/MS

- Analyze hundreds of pesticides in less than 10 minutes.
- LC multiresidue pesticide kit simplifies standard preparation.



Column Raptor ARC-18 (cat.# 9314A12)
Dimensions: 100 mm x 2.1 mm ID
Particle Size: 2.7 µm
Pore Size: 90 Å
Guard Column: Raptor ARC-18 EXP guard column cartridge 5 mm, 2.1 mm ID, 2.7 µm (cat.# 9314A0252)
Temp.: 50 °C
Sample LC multiresidue pesticide kit (cat.# 31971)
Diluent: Water:acetonitrile 9:1
Conc.: 1 ng/mL see notes for more details
Inj. Vol.: 5 µL
Mobile Phase
A: 0.2% Formic acid, 2 mM ammonium formate in water
B: 0.2% Formic acid, 2 mM ammonium formate in methanol

Time (min)	Flow (mL/min)	%A	%B
0.00	0.4	95	5
2.00	0.4	40	60
4.00	0.4	25	75
6.00	0.4	0	100
7.50	0.4	0	100
7.51	0.4	95	5
9.50	0.4	95	5

Detector MS/MS
Ion Mode: ESI+/ESI-
Mode: Scheduled MRM
Instrument UHPLC

Notes Although the ten LC multiresidue pesticides kit mixes are formulated to ensure maximum long-term stability and reliability as packaged, stability may become an issue when a large number of compounds with different chemical functionalities are combined together into a single mix. This should be taken into consideration for quantitative analysis.

Sample Preparation:
 Celery purchased from a local market was comminuted using a Robot Coup Blixer 3. After comminution, 15 g celery was fortified at 10 ng/g with all residues from the LC multiresidue pesticide kit (cat.# 31971), which had been previously combined into a single mixture that day. The fortified celery was then shaken for a couple minutes to ensure uniform dispersion of the fortified pesticides in the slurry. Extraction was performed by adding 15 mL of a 1% acetic acid solution in acetonitrile (v/v) and AOAC 2007.01 QuEChERS salts (cat.# 25852). After centrifugation, 1 mL supernatant was added to a 2 mL dSPE vial containing magnesium sulfate, PSA, and GCB (cat.# 26218) for cleanup. After centrifugation, 100 µL of the 10 ng/mL extract was diluted with 900 µL water and injected onto the UHPLC.

