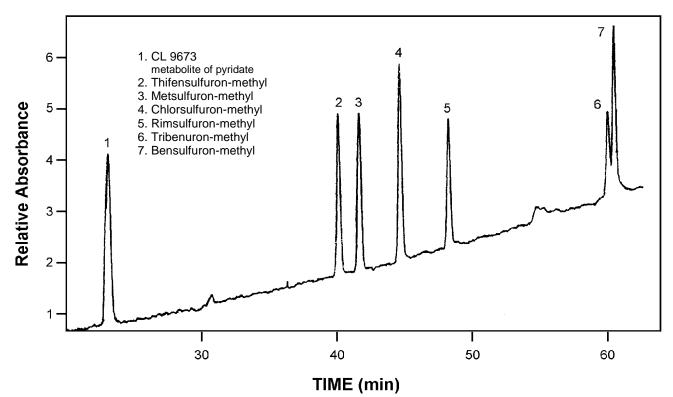
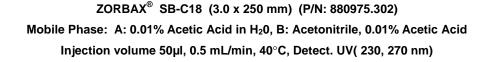
HIGH-RESOLUTION SEPARATION OF SULFONYLUREA PESTICIDES



Courtesy of Dr. rer.nat. Claus Schlett, Gelsenwasser AG



Gradient Time	%A	%B
2	90	10
70	55	45
85	55	45
89	10	90
94	10	90
95	90	10
110	90	10

SAMPLE PREPARATION

The sulfonylureas are extracted from water as follows:

- 1. The samples (1L) are filtered through a glass-fiber filter and are brought to a pH of 3-4 using hydrochloric acid. Then, 10 ml of methanol are added.
- 2. Solid-phase extraction is carried out using 2 g of sorbent.
- 3. The cartridges are conditioned with 6 bed-volumes of H_2O (adjusted to pH 3-4) followed by 6 bed-volumes of methanol.
- 4. The samples are passed through the cartridge at a rate not exceeding 500 ml/hr.
- 5. The cartridges are dried for 45 min with nitrogen gas at a rate of 90 ml/min.
- 6. The samples are eluted from the extraction column using acetone (3 washes of 3 ml each).
- 7. The acetone is carefully evaporated from the eluted sample, and the sample re-dissolved in 100µl acetonitrile, 400µl H_2O , 0.01% acetic acid.

HIGHLIGHTS

- An example of excellent selectivity and peakshape for a new family of pesticides.
- Zorbax SB-C18 has a sterically protected, bonded phase that permits reliable results run-after-run.

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