

## Pretreatment

1. Add 15 g of ground potatoes to 50 mL centrifuge tube.
2. Add 15 mL 1% acetic acid in acetonitrile with 1.5 g anhydrous sodium acetate and 6 g anhydrous magnesium sulfate.
3. Shake vigorously for 1 minute.
4. Centrifuge >1500 rcf for 1 minute.

## SPE Procedure

### Sep-Pak® Light NH<sub>2</sub>

|   |
|---|
| Transfer 5 mL to another tube and add 0.5 mg of anhydrous magnesium sulfate |
| Vortex and allow powder to settle   |
| Take 2 mL and pass through Sep-Pak Light NH <sub>2</sub>                    |
| Take out 200 µL dilute with 800 µL water                                    |
| Inject onto LC/MS (10 µL)   |

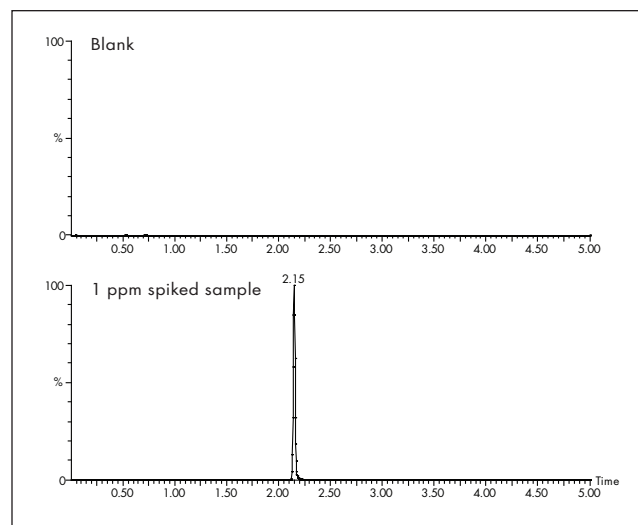
## LC Conditions

|               |   |    |    |
|---------------|---|----|----|
| Instrument:   | Waters ACQUITY UPLC® System   |    |    |
| Column:       | ACQUITY UPLC BEH C <sub>18</sub> , 2.1 x 100 mm, 1.7 µm             |    |    |
| Mobile phase: | A. 0.1% formic acid in water<br>B. 0.1% formic acid in acetonitrile |    |    |
| Gradient:     | Time (min)  | A% | B% |
|               | 0   | 80 | 20 |
|               | 3   | 20 | 80 |
|               | 3.2   | 80 | 20 |
|               | 5   | 80 | 20 |

## MS Conditions

|                  |   |
|------------------|---|
| Instrument:      | Waters Quattro micro™   |
| Ionization mode: | Positive electrospray (ESI <sup>+</sup> )<br>Multiple reaction monitoring |
| MRM transitions: | 1. 180.3 → 120.3<br>2. 180.3 → 138.3                                      |

## Results



Representative chromatogram of 1 µg/g spiked potato sample.

| Compound 1: propham 138.3 | RT   | Area    |
|---------------------------|------|---------|
| 1 ppm spiked 1            | 2.15 | 5895.34 |
| 1 ppm spiked 2            | 2.15 | 6424.93 |
| 1 ppm spiked 3            | 2.15 | 6996.63 |
| 1 ppm spiked 4            | 2.15 | 7557.80 |
| 1 ppm spiked 5            | 2.15 | 7567.60 |
| Mean                      |      | 6888.46 |
| RSD (%)                   |      | 10.57   |
| Recovery (%)              |      | 84.43   |

| Compound 2: propham 120.3 | RT   | Area    |
|---------------------------|------|---------|
| 1 ppm spiked 1            | 2.15 | 1849.85 |
| 1 ppm spiked 2            | 2.15 | 1950.71 |
| 1 ppm spiked 3            | 2.15 | 2091.4  |
| 1 ppm spiked 4            | 2.15 | 2276.4  |
| 1 ppm spiked 5            | 2.15 | 2306.56 |
| Mean                      |      | 2094.98 |
| RSD (%)                   |      | 9.5     |
| Recovery (%)              |      | 81.35   |

Recovery results for of 1 µg/g spiked potato sample.

## Ordering Information

| Description                                     | Part Number |
|---|-------------|
| Sep-Pak Light NH <sub>2</sub>                   | WAT023513   |
| ACQUITY UPLC BEH C <sub>18</sub> , 2.1 x 100 mm | 186002352   |