



Pesticide and PAH Extraction of Grass and Other Leafy Vegetation by QuEChERS Using ChloroFiltr[®] Clean-Up

March 10, 2010



UCT Products:

ECQUEU750CT-MP 4000 mg mag. Sulfate, 1000 mg sodium chloride, 500 mg sodium citrate dibasic sesquihydrate, 1000 mg sodium citrate tribasic dihydrate

CUMPSGG2CT 2 mL micro-centrifuge tube containing 150 mg magnesium sulfate anhydrous, 50 mg primary secondary amine (PSA) and 50 mg **ChloroFiltr[®]**

ECMPSGG15CT 15 mL centrifuge tube with 900 mg magnesium sulfate anhydrous, 300 mg primary secondary amine (PSA) and 150 mg **ChloroFiltr[®]**

1. Sample Preparation

- a) Add 15g of homogenized and hydrated sample (> 80% moisture) to a centrifuge tube
- b) Add 15 mL acetonitrile including internal standard
- c) Shake or vortex for 30 seconds
- d) Add the contents of package **ECQUEU750CT-MP** to centrifuge tube
- e) Immediately shake vigorously for 2 minutes
- f) Centrifuge for 2 minutes at 3450 rcf
- g) Draw 1 mL or 3-8 mL of supernatant for clean-up

2. Clean-Up

- a) For 1 mL of supernatant, use product **CUMPSGG2CT**
- b) For 3 mL of supernatant use product **ECMPSGG15CT**
- c) Add supernatant to centrifuge tube and shake vigorously for 1 minute
- d) Centrifuge for 2 minutes at 3450 rcf

Notes:

- a) Triphenyl phosphate may be used as a surrogate
- b) Calibrate instruments using matrix matched standards

DCN-010103-184