

Extraction of Non-Acidic Pesticides From Citrus Oils



UCT Part Numbers

ECQUEU750CT-MP

50mL Centrifuge Tube + Mylar Pouch (4000 mg MgSO_4 + 1000 mg NaCl + 500 mg Sodium Citrate Dibasic Sesquihydrate + 1000 mg Sodium Citrate Tribasic Dihydrate)

ECQUEU22CT

QuEChERS in 2 mL Centrifuge Tube 150 mg MgSO_4 , 25 mg PSA, 25 mg C18

ECQUEU315CT

QuEChERS dSPE - 15mL Centrifuge Tube (900 mg MgSO_4 + 150 mg PSA + 150 mg C18)

Procedure:

1. Sample Preparation

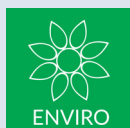
- Add 1 mL of citrus oil to a 50 mL centrifuge tube
- Add 1 mL of ethyl acetate and vortex briefly
- Add 9 mL of acetonitrile and any internal standards
- Shake or vortex for 30 seconds
- Add 10 mL of reagent water and vortex to mix contents
- Add contents of a package of **ECQUEU750CT-MP** to centrifuge tube
- Immediately, shake vigorously for 2 minutes
- Centrifuge for 5 minutes at 3450 rcf
- Draw 1 or 6 mL of supernatant for clean-up

2. Clean-Up

- For 1 mL of supernatant, use product **ECQUEU22CT**
- For 6 mL of supernatant, use product **ECQUEU315CT**
- Add supernatant to centrifuge tube and shake vigorously for 1 minute
- Centrifuge for 2 minutes at 3450 rcf
- Take aliquot for analysis

3. Analysis

- Add TPP as a surrogate (optional)
- For LC, add 5% formic acid as a preservative
- For GC, solvent exchange into toluene
- Matrix matched calibration standards are strongly recommended



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