

## J.G. Finneran introduces QuEChERS used for Testing Pesticides in Cannabis aka Marijuana



QuEChERS was developed to be a simple, effective and inexpensive way to extract and clean pesticide residues from a wide range of sample matrices. This is desirable for multiresidue pesticide methods where the goal is to test many compounds, sometimes hundreds, in one analysis. Because of the benefits of QuEChERS, the approach has become popular and has expanded to include numerous other matrices such as grains, nuts, dairy, tea and spices, and Cannabis, just to name a few.

### Procedure for QuEChERS Extraction for testing pesticides in Cannabis

1. Weigh 1 gram of homogenized Cannabis into a laboratory plastic tube.
2. Add 10mL of reagent water, let soak, and shake occasionally for 30 minutes.
3. Add 10mL of MeCN, if you use JGF00150P (EN-15662) or 10mL MeCN 1%HAc, if you use JGF00450P (AOAC 2007.01). Shake or vortex for 10 minutes.
4. Add the Quechers extraction salts JGF00150P (EN-15662) or JGF00450P (AOAC 2007.01) and shake for 1 minute manually or use a plant tissue homogenizer at 1,000 strokes/minute.
5. Centrifuge at 5000 G for 5 minutes. Target analytes will be extracted into the upper layer.

### Procedure for Dispersive SPE Clean-up

6. Transfer 10mL of the supernatant to the 15mL tube dSPE clean-up JGF00915P.
7. Shake for 2 minutes manually or use a plant tissue homogenizer at 1,000 strokes/minute.
8. Centrifuge at 5,000 G for 5 minutes.
9. Prepare the sample for the analysis.

### QuEChERS Extraction Products for testing pesticides in Cannabis

Finneran No.	Description	Qty.
JGF00150P	4g MgSO <sub>4</sub> , 1g NaCl, 1g trisodium citrate dihydrate, .5g disodium hydrogencitrate sesquihydrate (EN-15662) in a 50mL tube	50
JGF00450P	6g MgSO <sub>4</sub> , 1.5g NaOAc (AOAC 2007.01) in a 50mL tube	50

### Dispersive SPE (dSPE) Clean-up Products

Finneran No.	Description	Qty.
JGF00915P	900mg MgSO <sub>4</sub> , 300mg PSA, 150mg GCB in a 15mL tube	50

## Finneran Products Used in the Cannabis Lab

	Finneran No.	Description	Case
	32008-1232	2.0mL Clear Vial, 12x32mm, 8-425mm Thread	1000
	32008E-1232	2.0mL Clear Vial, 12x32mm, w/White Graduated Spot, 8-425mm Thread	1000
	401BS-530	100µL Glass Conical Limited Volume Insert, Precision-Formed Mandrel Interior, w/Bottom Spring	100
	604060-08	8mm x 0.040" Red PTFE/Silicone/Red PTFE Septa	1000
	804060-08	8-425mm Black Open Hole Polypropylene Closure, PTFE/Silicone/PTFE Septa, 0.040"	1000
	806550-08	8-425mm Black Open Hole Polypropylene Closure, Red PTFE/Silicone Septa, 0.065"	1000
	320018R-2375	20mL Clear Beveled Bottom Headspace Vial, 23x75mm, 18mm Thread	1000
	5356B-18M	18mm Silver Magnetic (Metal) Closure with Blue 0.060" PTFE/Silicone Liner	100
	90865-12	Convenience Pack - P/N 32008-1232 and 806550-08	1000
	90865-12Z	Convenience Pack - P/N 32008-1232Z (Silanized Vial) and 806550-08	1000
	90865-12A	Convenience Pack - P/N 32008-1232A and 806550-08	1000
	90865-12AZ	Convenience Pack - P/N 32008-1232AZ (Silanized Vial) and 806550-08	1000
	32020SP-2375	20mL SPME Clear Radius Bottom Vial, 20mm Flat Top Crimp, Thicker Lip Finish	1000
	5145TP8-20SP	20mm Gold Tin Plate Magnetic Seal, 8mm Hole, Thin 0.060" Blue PTFE/White Silicone for SPME	100
	9-103	40mL Clear Vial, 24-414mm Open Top White Polypropylene Closure, .100" PTFE/Silicone Lined	100