



ORDER TODAY FOR SPECIAL PROMOTIONAL PRICING!!

**J.G. Finneran introduces
QuEChERS
used for
Testing Pesticides in Botanicals**

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 botanicals, just to name a few.

Procedure for QuEChERS Extraction for testing pesticides in botanicals

1. Weigh 1 gram of homogenized botanicals 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 botanicals

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

Dispersive SPE (dSPE) Clean-up Products

| Finneran No. | Description | Qty. |
|--------------|---|------|
| JGF00915P | 900mg MgSO ₄ , 300mg PSA, 150mg GCB in a 15mL tube | 50 |

Fox Scientific, Inc.

8221 East FM 917 • Alvarado, TX 76009 • Phone: (800) 369-5524 • Fax: (817) 783-3571
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Finneran Products Used in the Botanical Lab



32008-1232 32008E-1232



606550-08



320018R-2375



5356B-18M



90865-12



32020SP-2375



5145TP8-20SP



9-103

| Finneran No. | Description | Case |
|--------------|--|------|
| 32008-1232 | 2.0mL Clear Vial, 12x32mm, 8-425mm Screw Thread (also available in amber vial) | 1000 |
| 32008E-1232 | 2.0mL Clear Vial, 12x32mm, w/White Graduated Spot, 8-425mm Screw Thread (also available in amber vial) | 1000 |
| 401BS-530 | 100µL Glass Conical Limited Volume Insert, Precision-Formed Mandrel Interior, with 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 Screw Thread (also available in amber vial) | 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 (also available in amber vial) | 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 (also available with amber vial) | 100 |

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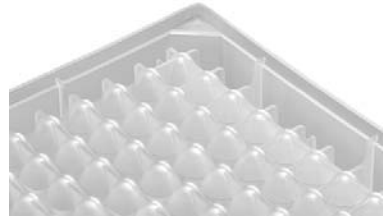


Porvair Sciences Genomics Plate for Botanicals Analysis

Porvair Sciences reports on a highly effective protocol, using its Plant Genomics microplate, for preparing botanical samples for analysis of Tetrahydrocannabinol (THC) and Cannabidiol (CBD).

With increasing legalization of botanicals for medicinal and research purposes, demand for accurate and high throughput analysis of its active ingredients has dramatically risen. Botanical plant material contains several cannabinoids for which the human brain has evolved receptors. The two most important are the psychoactive THC and the analgesic CBD which has therapeutic uses. The ratio of THC and CBD is crucial for differentiating medicinal versus recreational cannabis. This ratio is important for taxation authorities, medical regulators and growers alike.

Accurate determination of the THC/CBD ratio is critically determined by effective sample preparation of the samples of the botanical leaf, bud and flower. Traditional sample preparation methods have used bead-beating or grinding mills to homogenise these materials. When conducted in polypropylene microplates the extreme forces applied by these machines often cause damage to the plates leading to cracking, leaking and ultimately, cross-contamination.



Reinforced underside to withstand high impact grinding processes

All plates and cap mats are DNA/RNA-ase free

| Finneran No. | Description | Sterile | Case Qty. |
|--------------|---|---------|-----------|
| 219030 | 2mL square well toughened genomics plate | | 50 |
| 219031 | 2mL square well toughened genomics plate | X | 50 |
| 219004 | EVA sealing cap, 96 square well to fit 219030, 219031 | | 50 |

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Promotional Pricing

| <u>Part Number:</u> | <u>Qty/Uom:</u> | <u>Promo Price:</u> |
|---------------------|-----------------|---------------------|
| JGF00150P | 50/PK | \$104.29 |
| JGF00450P | 50/PK | \$104.29 |
| JGF00915P | 50/PK | \$118.58 |
| 32008-1232 | 1000/CS | \$94.72 |
| 32008E-1232 | 1000/CS | \$113.86 |
| 401BS-530 | 100/CS | \$27.29 |
| 604060-08 | 1000/CS | \$137.15 |
| 804060-08 | 1000/CS | \$200.58 |
| 806550-08 | 1000/CS | \$151.58 |
| 320018R-2375 | 1000/CS | \$295.15 |
| 5356B-18M | 100/CS | \$50.29 |
| 90865-12 | 1000/CS | \$274.15 |
| 90865-12Z | 1000/CS | \$480.29 |
| 90865-12A | 1000/CS | \$286.00 |
| 90865-12AZ | 1000/CS | \$489.72 |
| 32020SP-2375 | 1000/CS | \$282.43 |
| 5145TP8-20SP | 100/CS | \$76.86 |
| 9-103 | 100/CS | \$68.05 |
| 219030 | 50/CS | \$209.86 |
| 219031 | 50/CS | \$313.72 |
| 219004 | 50/CS | \$195.29 |

Reference Promo Code:

Q00089

Offer expires:

5/31/2020

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