

# MAKE QuEChERS AS EASY AS 1-2-3 WITH AGILENT BOND ELUT QuEChERS KITS

## Step 1 EXTRACT

Choose your salts

### AOAC Method 2007.01:

6 g MgSO<sub>4</sub>,  
1.5 g Na acetate  
(5982-5755)

or

### EN Method 15662:

4 g MgSO<sub>4</sub>, 1 g NaCl,  
1 g Na citrate, 0.5 g disodium  
citrate sesquihydrate  
(5982-5650)

or

### Original QuEChERS Extraction:

10 g sample (5982-5550):  
4 g MgSO<sub>4</sub>, 1 g NaCl  
15 g sample (5982-5555):  
6 g MgSO<sub>4</sub>, 1.5 NaCl



## Step 2 CLEAN

Choose a dispersive  
SPE kit\* specific to  
your matrix

AOAC

5982-5058  
400 mg PSA, 1,200 mg MgSO<sub>4</sub>

5982-5258  
400 mg PSA, 400 mg GCB,  
1,200 mg MgSO<sub>4</sub>

5982-5158  
400 mg PSA, 400 mg C18EC,  
1,200 mg MgSO<sub>4</sub>

5982-5456  
400 mg PSA, 400 mg GCB, 400  
mg C18EC, 1,200 mg MgSO<sub>4</sub>

5982-0029  
400 mg PSA, 400 mg C18,  
45 mg GCB, 1,200 mg MgSO<sub>4</sub>

5982-4950  
50 mg PSA, 150 mg C18EC,  
900 mg Na<sub>2</sub>SO<sub>4</sub> (2 mL)

5982-4956  
150 mg C18, 900 mg MgSO<sub>4</sub>

### General Fruits and Vegetables

Removes polar organic acids,  
some sugars and lipids

### Pigmented Fruits and Vegetables

Removes polar organic acids,  
some sugars and lipids, and  
carotenoids and chlorophyll;  
not for use with planar  
pesticides

### Highly Pigmented Fruits and Vegetables

Removes polar organic acids,  
some sugars and lipids, plus  
high levels of carotenoids and  
chlorophyll; not for use with  
planar pesticides

### Fruits and Vegetables with Fats and Waxes

Removes polar organic acids,  
some sugars, more lipids and  
sterols

### Fruits and Vegetables with Pigments and Fats

Removes polar organic acids,  
some sugars and lipids, plus  
carotenoids and chlorophyll;  
not for use with planar  
pesticides

### High-Fat Matrices

Removes lipids and other  
fatty interferences, including  
straight-chain aliphatic  
compounds; also effective in  
removing some pigments

### General Food

Removes all matrix-interfering  
materials including polar  
organic acids, lipids, sugars,  
proteins, carotenoids, and  
chlorophyll

### Animal Origin Food

Removes matrix interferences  
such as polar organic salts,  
sugars, lipids and proteins

### Other Foods

Removes biological matrix  
interferences, including  
hydrophobic substances (fats,  
lipids) and proteins

EN

5982-5056  
150 mg PSA,  
900 mg MgSO<sub>4</sub>

5982-5256  
150 mg PSA,  
15 mg GCB,  
885 mg MgSO<sub>4</sub>

5982-5356  
150 mg PSA,  
45 mg GCB,  
855 mg MgSO<sub>4</sub>

5982-5156  
150 mg PSA,  
150 mg C18EC,  
900 mg MgSO<sub>4</sub>

### Enhanced Matrix Removal—Lipid

Bond Elut QuEChERS dSPE Enhanced Matrix Removal—Lipid (5982-1010) in combination with Bond Elut Final Polish for Enhanced Matrix Removal—Lipid (5982-0101 or 5982-0102) is specifically designed to remove lipids from high-fat samples. The sorbent removes interfering lipids from samples while leaving analytes behind.

## Step 3 ANALYZE

with Poroshell LC Columns or Ultra Inert GC Columns using the 6400 Series Triple Quadrupole LC/MS or 7000C Triple Quadrupole GC/MS System for targeted screening or the 6500 Series Accurate-Mass Quadrupole Time-of-Flight (Q-TOF) or 7200 GC/Q-TOF for non-targeted screening.



For more information on Agilent Bond Elut QuEChERS products visit [www.agilent.com/chem/quechers](http://www.agilent.com/chem/quechers)

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\*Shown here are kits in a 15 mL format unless otherwise noted. Agilent also offers many kits in 2 mL formats.

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