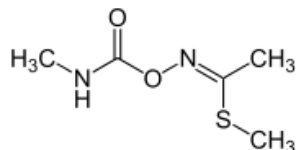
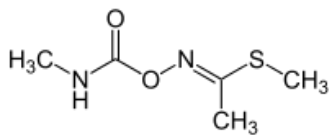
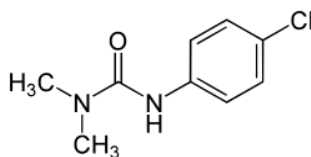


## QuEChERS Tubes

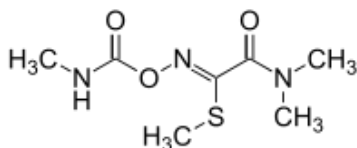
### Compounds :



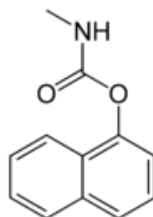
Methomyl



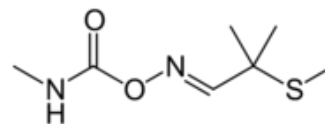
Monuron



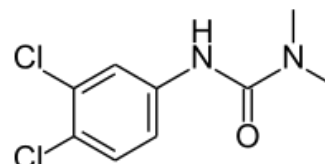
Oxamyl



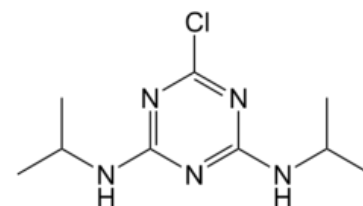
Carbaryl



Aldicarb



Diuron



Propazine

### QuEChERS EXTRACTION METHOD:

#### Pre-treatment:

Mix 1 g of tea leaves with 3 mL of acetonitrile with 1% acetic acid. Vortex for about 5 minutes, then centrifuge it.



Add 1 mL of supernatant to each QuEChERS-green tube. Vortex for 1 min and centrifuge it. Collect supernatant.



Add 1 mL of a 1:4 methanol:DCM slution (v/v) to the QuEChERS-green tube. Vortex for 1 min and centrifuge it. Collect supernatant



Repeat last step. Combined all the supernatants in a glass tube , and evaporate it under nitrogen at 50C.



#### Reconstitute:

30% acetonitrile with water

### HPLC METHOD:

**Column:** Orochem Prestige C18 HPLC column 4.6x 250 mm, 5 µm.

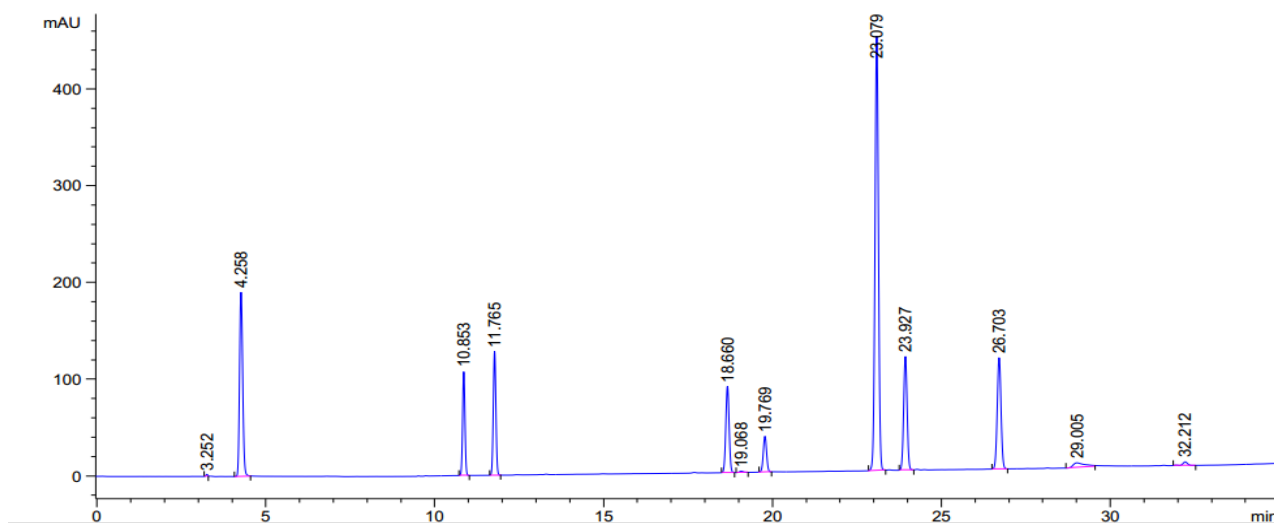
**Part number:**  
**Mobile phase:** A: water  
 B: acetonitrile

**Gradient:** Initial 5% B for 2 min, then gradient to 20% B at 5 min, to 75% B at 30 min, to 95% B at 35 min, and hold 5 min.

**Flow rate:** 1.0 mL/min

**Injection volume:** 20 µL

**UV wavelength:** 220 nm



Pesticide	Retention time (minutes)	Pesticide	Retention time (minutes)
Acrylamide	4.258	Monuron	19.769
Oxamyl	10.853	Carbaryl	23.079
Methomyl	11.765	Diuron	23.927
Aldicarb	18.660	Propazine	26.703

## RESULTS:

Pesticide	Average Total Recovery (%)	Coefficient of Variation(%)
oxamyl	94.5	1.8
methomyl	86.5	4.7
aldicarb	63.5	5.8
monuron	65.8	3.6
carbaryl	53.0	4.9
diuron	41.3	7.0
propazine	79.5	1.6