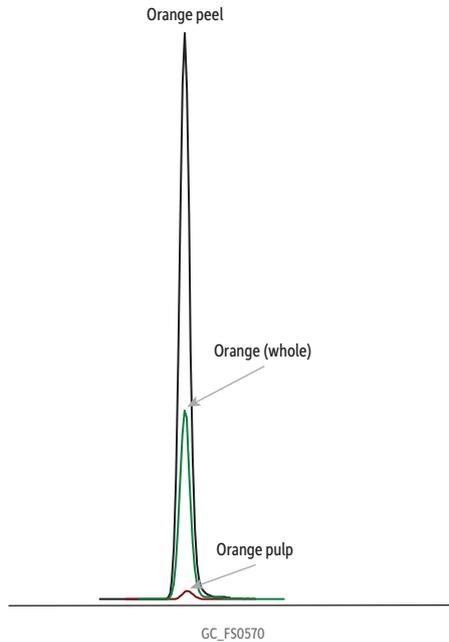


Comparison of Incurred Fludioxonil in Various Parts of Orange on Rxi-5ms



Peaks	Retention Time (min)	Precursor Ion	Product Ion	Collision Energy (CE)
1. Fludioxonil	18.16	248	127	30

Column Sample Rxi-5ms, 30 m, 0.25 mm ID, 0.25 μ m (cat.# 13423)
Whole orange QuEChERS extract (318 ng/g)
Orange peel QuEChERS extract (594 ng/g)
Orange pulp QuEChERS extract (6.8 ng/g)
Acetonitrile

Diluent:
Injection
Inj. Vol.: 1 μ L splitless (hold 0.5 min)
Liner: Topaz 4.0 mm ID single taper inlet liner w/wool (cat.# 23447)
Inj. Temp.: 250 $^{\circ}$ C

Oven
Oven Temp.: 90 $^{\circ}$ C (hold 1 min) to 330 $^{\circ}$ C at 8.5 $^{\circ}$ C/min (hold 5 min)
Carrier Gas
Flow Rate: He, constant flow
1.4 mL/min

Detector
Transfer Line
Temp.: 290 $^{\circ}$ C
Analyzer Type: Quadrupole
Source Temp.: 280 $^{\circ}$ C
Tune Type: PFTBA
Ionization Mode: EI

Instrument Thermo Scientific TSQ 8000 Triple Quadrupole GC-MS

Notes Sample Preparation (adapted from EN and AOAC QuEChERS methods):

Orange (Whole): 10 g of homogenized orange was fortified with an internal standard and mixed with 10 mL acetonitrile and two steel ball bearings ($^{1/16}$ ") and shaken for 10 minutes. Q-sep QuEChERS extraction salts for EN 15662 (cat.# 25849) were added, and the sample was shaken for 1 minute. The sample was centrifuged for 5 minutes, and the supernatant was removed and further cleaned up with prefilled Q-sep QuEChERS dSPE tubes containing 150 mg $MgSO_4$, 50 mg PSA, and 50 mg C18-EC (cat.# 26125).

Orange Peel: 10 g of homogenized orange peel was fortified with an internal standard, hydrated with 4 mL water, and briefly shaken by hand. Acetonitrile (10 mL) was added, and the sample was shaken for an additional 1 minute. Q-sep QuEChERS extraction salts for EN 15662 (cat.# 25849) were added, and the sample was shaken for 1 minute. The sample was centrifuged for 5 minutes, and the supernatant was removed and further cleaned up with prefilled Q-sep QuEChERS dSPE tubes containing 150 mg $MgSO_4$, 25 mg PSA, and 25 mg C18-EC (cat.# 26216).

Orange Pulp: 15 g of homogenized orange pulp was fortified with an internal standard. Acetonitrile with 1% acetic acid (15 mL) was added, and the sample was shaken for 1 minute. Q-sep QuEChERS extraction salts for AOAC 2007.01 (cat.# 25851) were added, and the sample was shaken for an additional 1 minute. The sample was centrifuged for 5 minutes, and the supernatant was removed and further cleaned up with prefilled Q-sep QuEChERS dSPE tubes containing 150 mg $MgSO_4$ and 50 mg PSA (cat.# 26124).

The dSPE supernatant of all samples was analyzed directly (no further dilution) within 24 hours of the initial extraction.