

# Benzo[b]fluoranthene and Benzo[a]pyrene in a QuEChERS Extract of Mate Tea Separated from Potential Interfering PAHs on Rxi-PAH

| Peaks                   | tr (sec) |
|-------------------------|----------|
| 1. Benzo[b]fluoranthene | 1,403.6  |
| 2. Benzo[k]fluoranthene | 1,409.6  |
| 3. Benzo[j]fluoranthene | 1,413.6  |
| 4. Benzo[a]fluoranthene | 1,431.6  |
| 5. Benzo[e]pyrene       | 1,478.2  |
| 6. Benzo[a]pyrene       | 1,489.0  |
| 7. Perylene             | 1,511.4  |

**Column** Rxi-PAH, 60 m, 0.25 mm ID, 0.10  $\mu$ m (cat.# 49317)  
**Injection**  
Inj. Vol.: 2.5  $\mu$ L splitless (hold 1 min)  
Liner: Premium 4 mm single taper w/wool (cat.# 23303)  
Inj. Temp.: 275  $^{\circ}$ C  
Purge Flow: 40 mL/min  
**Oven**  
Oven Temp.: 80  $^{\circ}$ C (hold 1 min) to 210  $^{\circ}$ C at 40  $^{\circ}$ C/min to 260  $^{\circ}$ C at 3  $^{\circ}$ C/min to 350  $^{\circ}$ C at 11.5  $^{\circ}$ C/min (hold 6.25 min)  
**Carrier Gas** H<sub>2</sub>, constant flow

Flow Rate: 2.4 mL/min  
**Detector** TOFMS  
Transfer Line Temp.: 320  $^{\circ}$ C  
Analyzer Type: TOF  
Source Temp.: 300  $^{\circ}$ C  
Electron Energy: 70 eV  
Mass Defect: 0 mu/100 u  
Solvent Delay Time: 3.67 min  
Tune Type: PFTBA  
Ionization Mode: EI  
Acquisition Range: 45-550 amu  
Spectral Acquisition Rate: 5 spectra/sec  
**Instrument** LECO Pegasus 4D GCxGC-TOFMS

