

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

Peaks	$t_R$ (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.# 23303.5)  
Inj. Temp.: 275 °C  
Purge Flow: 40 mL/min  
**Oven**  
Oven Temp.: 80 °C (hold 1 min) to 210 °C at 40 °C/min to 260 °C at 3 °C/min to 350 °C at 11.5 °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 °C  
**Analyzer Type:** TOF  
**Source Temp.:** 300 °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

