

CONFIRM PAH TARGETS WITH CONFIDENCE

Triple Quadrupole GC/MS PAH Analyzer

The Measure of Confidence



Agilent Analyzers and Applications Kits

Fully configured and factory chemically-tested Analyzer facilitates sensitive, GC/MS analysis for PAHs in environmental and food samples

Polycyclic aromatic hydrocarbons (PAHs) are included on US Environmental Protection Agency (EPA), US Food and Drug Administration (FDA), and National Oceanic and Atmospheric Administration (NOAA) pollutant lists because of their mutagenic and carcinogenic properties. These dangerous substances can enter the food chain as waterborne compounds, through contaminated sediments, or by crossing the lipid membranes of aquatic organisms.

Confidently test for PAHs to help ensure the safety of our food and water

Based on Agilent's **7890A GC** and **7000 Series Triple Quadrupole GC/MS**, our Triple Quadrupole GC/MS PAH Analyzer reduces method development and startup time, allowing your team to focus on method validation and real world results immediately after installation.

The Analyzer includes **Capillary Flow Technology (CFT) backflush** (through a post-column, purged ultimate union) for superior selectivity, trace sensitivity, and robustness. CFT backflush also eliminates – or shortens – post-run bakeout time, and reduces frequency of source cleaning.

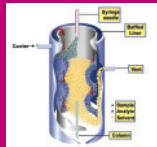
The following components are included – saving you time and money:

- PAH calibration standards and internal standards used for method checkout
- Retention Time Locked application-specific column optimized and tested for PAH analysis
- PAH MRM acquisition method, quick start guide, and Application Note that show you how to set up the analysis method provided with the Analyzer
- CD-ROM with factory checkout results, data files, and reports

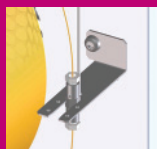


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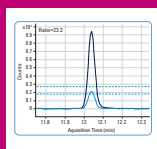
Leverage these technologies for performing highly sensitive PAH analysis in complex matrices



Multimode inlet (MMI) lets you choose from several injection options, such as large-volume injection or cold splitless injection (for thermally labile compounds).



Integrated Capillary Flow Technology (CFT) backflush promotes shorter analysis times, lower chemical background, longer column life, and less frequent source cleaning to improve uptime.

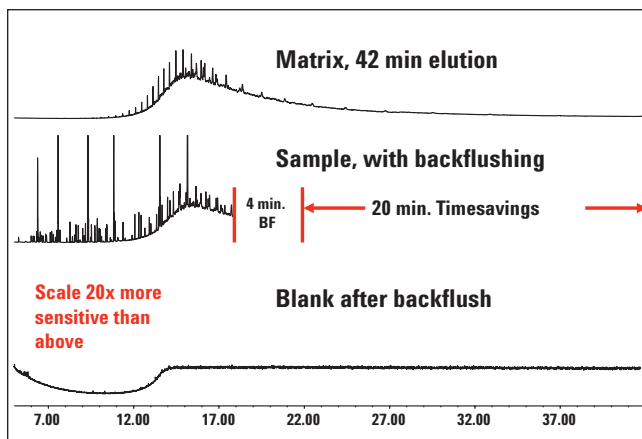


Superior GC/MS/MS selectivity and sensitivity eliminates false results, and simplifies data review for improved productivity.



Productivity tools to help you make the most of every analysis: Agilent Autotune, Batch-at-a-Glance data review, and parameter-less integrator streamline your data review and processing.

Boost your productivity with the Agilent GC/MS/MS PAH Analyzer



This graph shows how backflushing can reduce your run time by 50%. The blank area after the backflush process confirms that the inlet and column are clean.

PAH	Level of spiking (ng/g) (n = 6)					
	1			2		
	Spiking Level	%Recovery	%RSD	Spiking Level	%Recovery	%RSD
Naphthalene	20	94.7	1.4	100	97.9	1.1
Pyrene	10	93.5	1.8	50	86.1	1.3
1,2-Benzanthracene	5	94.5	1.3	20	89.6	1.6
Chrysene	10	101.0	1.4	50	97.8	1.7
Benzo[e]pyrene	5	88.8	1.5	20	85.2	1.9
Benzo[e]acenaphthylene	5	95.5	0.7	20	92.7	0.7
Benzo[k]fluoranthene	5	93.5	0.8	20	94.6	0.9
Dibenzo[a,h]anthracene	5	88.2	0.9	20	97.3	1.1
Benzo[g,h,i]perylene	5	98.4	0.8	20	95.5	1.6
Indeno[1,2,3-cd]pyrene	5	91.5	1.5	20	97.9	0.9

Recoveries and RSDs for a selection of Polycyclic Aromatic Hydrocarbons in Fish Sample (n = 6)

Put your lab on the productivity fast track.

Contact your local Agilent Representative or Agilent Authorized Distributor

Call **800-227-9770** (in the U.S. or Canada) or visit www.agilent.com/chem/appkits

Ordering information:

Order an Agilent **7000 Series Triple Quadrupole GC/MS** with an Agilent **7890A GC system** and choose the following options:

- **G3445A#521 PAH GC/MS/MS Analyzer** with post-column backflush method

Agilent also offers a Single Quadrupole GC/MSD PAH Analyzer equipped with CFT Backflush. Contact your Agilent sales representative for details.

