NEW Rxi®-PAH GC Column

Resolve Important Isobaric Polycyclic Aromatic Hydrocarbons for Food Safety and Environmental Methods

- Separation of *all* EFSA PAH4 compounds: benz[a]anthracene, chrysene, benzo[b]fluoranthene, and benzo[a]pyrene.
- Best resolution of chrysene from interfering PAHs, triphenylene and cyclopenta[cd]pyrene.
- Complete separation of benzo [b], [k], [j], and [a] fluoranthenes.

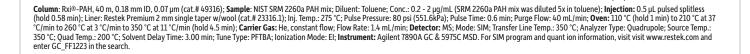
12.00

14.00

• 360 °C thermal stability allows analysis of low volatility dibenzo pyrenes.

Rxi®-PAH GC columns were designed by Restek with a higher phenyl-content stationary phase that provides a unique selectivity to separate important polycyclic aromatic hydrocarbons (PAHs) for food safety that cannot be distinguished by mass spectrometry. Even difficult priority compounds, such as the European Food Safety Authority (EFSA) PAH4, are easily separated and accurately quantified, results that cannot be achieved on typical GC columns. Arylene modification and surface bonding of the stationary phase increase thermal stability and ruggedness so relatively nonvolatile, higher molecular weight PAHs can be analyzed routinely without interference from column bleed. Excellent column efficiency means that the column can be trimmed for maintenance purposes many times without losing critical PAH separations, including those that are part of environmental methods, as well as food safety testing.

Figure 1: A 40 m x 0.18 mm x 0.07 μm Rxi®-PAH column produces excellent resolution of critical peaks in less than 33 minutes! Naphthalene chrysene Biphenyl Acenaphthylene Acenaphthene Separate and accurately Fluorene quantify EFSA PAH4 Dibenzothiophene Phenanthrene priority compounds. Anthracene 4H-Cyclopentaldef1 phenanthrene benzo [b], [k], [j], & [a] Fluoranthene 11. Pyrene 12. Benzo[ghi]fluoranthene 17.60 13. Benzo[c]phenanthrene 15.20 15.80 16.40 Benz[a]anthracene 14. 15. Cyclopenta[cd]pyrene Triphenylene Chrysene Benzo[b]fluoranthene 19. Benzo[k]fluoranthene Benzo[j]fluoranthene 20. 21. Benzo[a]fluoranthene Benzo[e]pyrene Benzo[a]pyrene Perylene Dibenz[a,j]anthracene Dibenz[a,c]anthracene 27. Indeno[1,2,3-cd]pyrene Dibenz[a,h]anthracene Benzo[b]chrysene 31. Benzo[ghi]perylene Anthanthrene 33. Dibenzo[b,k]fluoranthene 34. Dibenzo[a,e]pyrene Coronene



22.00

20.00



Dibenzo[a,h]pyrene



NEW GC Columns for PAH Analysis— Perfect for EFSA PAH4 Priority Compounds!

Whether you want more resolution or faster analysis times, new Rxi®-PAH columns have the selectivity and efficiency you need. Choose the configuration that is best for your separation.

Cat.#	Length	ID	df	Description
49316	40 m	0.18 mm	0.07 μm	Narrow inside diameter, thinner film, faster analysis, excellent separation of important PAHs, less sample loading capacity
49317	60 m	0.25 mm	0.10 μm	0.25 mm inner diameter, better sample loading capacity, highest resolution of important PAHs, longer analysis than 0.18 mm column, thin film allows elution of dibenzo pyrenes
49318	30 m	0.25 mm	0.10 μm	0.25 mm inside diameter, better sample loading capacity, faster analysis time than 60 m column, adequate resolution of important PAHs, lower cost column

Recommended for PAH Analysis



23316

Restek Premium 2.0 mm ID Single Taper Inlet Liner

Suggested for 0.18 mm ID columns.

For Agilent GCs equipped with split/splitless inlets

ID x OD x Length	qty.	cat.#							
Single Taper, Restek Premium Technology, Borosilicate Glass									
2.0 mm x 6.5 mm x 78.5 mm	ea.	23315.1							
2.0 mm x 6.5 mm x 78.5 mm	5-pk.	23315.5							
2.0 mm x 6.5 mm x 78.5 mm	25-pk.	23315.25							
Single Taper, Restek Premium Technolo	gy, Wool, Borosilicate Gla	ass							
2.0 mm x 6.5 mm x 78.5 mm	ea.	23316.1							
2.0 mm x 6.5 mm x 78.5 mm	5-pk.	23316.5							
2.0 mm x 6.5 mm x 78.5 mm	25-pk.	23316.25							

Restek Premium 4.0 mm ID Single Taper Inlet Liner

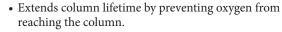
Suggested for 0.25 mm ID columns.

For Agilent GCs equipped with split/splitless inlets

ID x OD x Length	qty.	cat.#
Single Taper, Restek Premium Technology	ogy, Borosilicate Glass	
4.0 mm x 6.5 mm x 78.5 mm	ea.	23302.1
4.0 mm x 6.5 mm x 78.5 mm	5-pk.	23302.5
4.0 mm x 6.5 mm x 78.5 mm	25-pk.	23302.25
Single Taper, Restek Premium Technology	ogy, Wool, Borosilicate Gl	ass
4.0 mm x 6.5 mm x 78.5 mm	ea.	23303.1
4.0 mm x 6.5 mm x 78.5 mm	5-pk.	23303.5
4.0 mm x 6.5 mm x 78.5 mm	25-pk.	23303.25

Dual Vespel® Ring Inlet Seals Washerless, leak-tight seals for Agilent GCs

- · Does not require a separate washer.
- Requires less torque to seal.
- Does not require retightening of reducing nut after several oven cycles.









Patented

21240	21241	00140
	21241	23418
21242	21243	23419
21238	21239	23420
2-pk.	10-pk.	
21246	21247	
21248	21249	
21244	21245	
	21242 21238 2-pk. 21246 21248	21242 21243 21238 21239 2-pk. 10-pk. 21246 21247 21248 21249

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for easy online ordering.



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