

Imagine being able to successfully separate chelating compounds with sensitivity and speed

ProteCol™ HPLC Columns turn imagination into results



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Solving the problem of separating chelating compounds, such as natural products, antibiotics and antifungals, with minimal preparation time

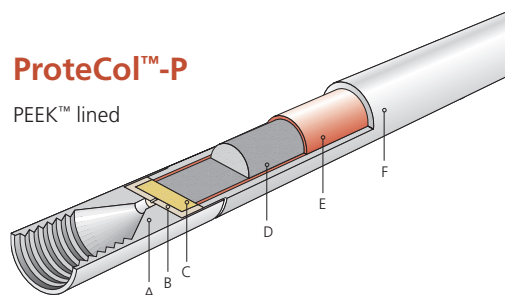
How do ProteCol™-P C18 HPLC Columns turn imagination into results?

ProteCol™ columns have a unique inert metal free flow path

- Ultra pure silica
- Fully end capped optimized C18 phases
- Inert PEEK™ lined column hardware with PEEK™ frits.

ProteCol™-P

PEEK™ lined

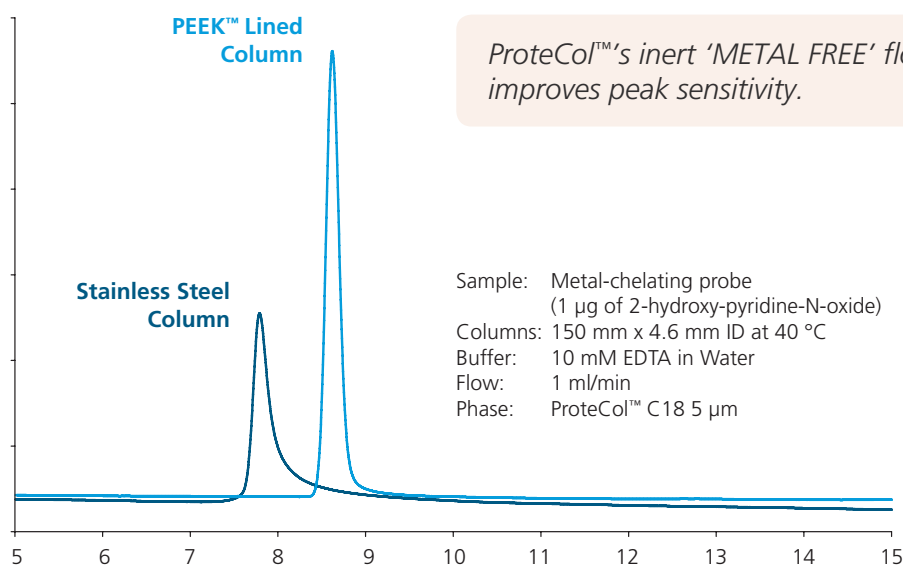


- | | |
|----------------------|-------------------------------|
| A Column end cap | E PEEK™ lining |
| B PEEK™ frit housing | F Stainless steel column body |
| C Porous PEEK™ frit | |
| D Stationary phase | |

What are the advantages of PEEK™ over stainless steel?

Feature	PEEK™-lined Stainless Steel Column	Generic Stainless Steel Column
Peak symmetry (A_s and T_f) for metal chelators	< 1.1	> 1.5
Peak height (sensitivity) for metal chelators	Excellent	Good to Poor
Column conditioning	Minimal	5 - 50 column volumes
Temperature stability	Excellent	Excellent
Solvent stability	Excellent	Excellent

A_s = Asymmetry factor; T_f = Peak Tailing factor

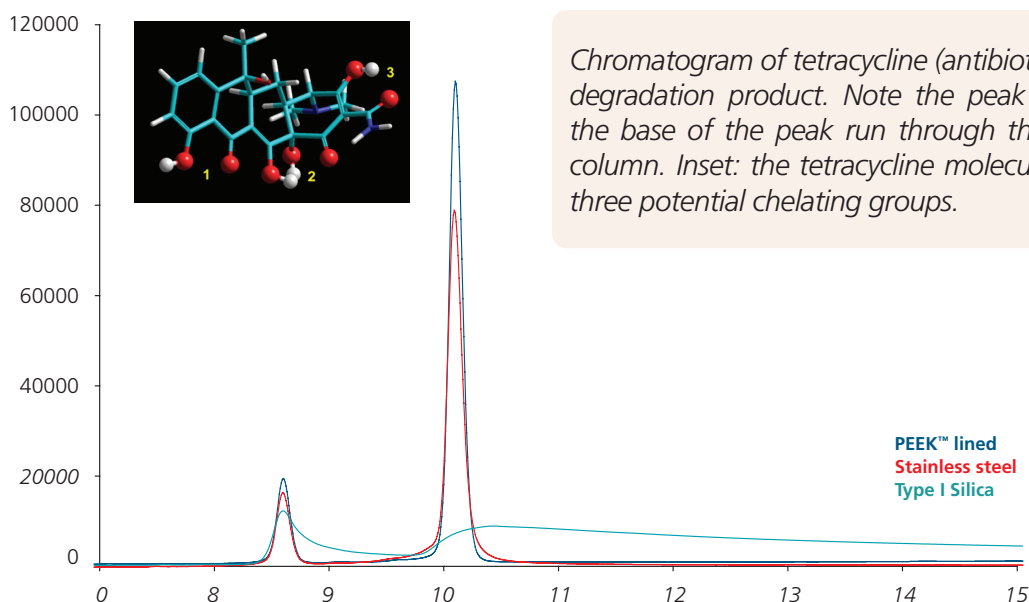


ProteCol™'s inert 'METAL FREE' flow path improves peak sensitivity.

ProteCol™-P C18 columns turn imagination into results for chelating compounds such as natural products, delivering you these important benefits.

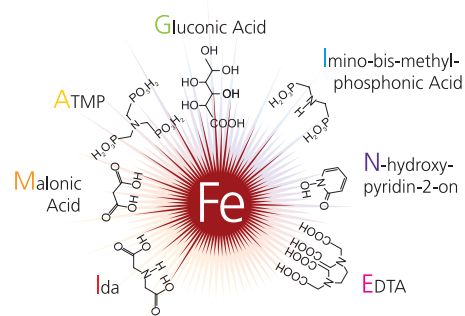
- Substantially reduced sample and column preparation time
- Improved peak shape giving you improved reproducibility and sensitivity
- Less artifacts due to reduced carry over
- Enables use of MS, ELSD and Corona CDA techniques

Improved peak sensitivity with ProteCol™-G C18 compared to stainless steel and silica columns

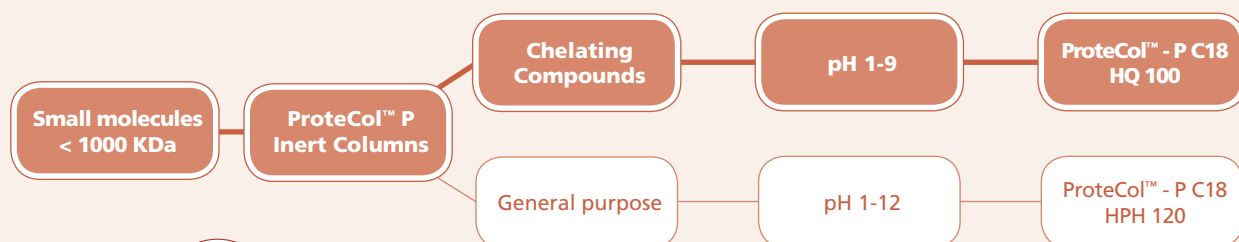


Chromatogram of tetracycline (antibiotic) and its major degradation product. Note the peak broadening on the base of the peak run through the stainless steel column. Inset: the tetracycline molecule depicting the three potential chelating groups.

Imagine what Florey could have done with ProteCol™-P!



ProteCol™ C18 HPLC Column Selection Guide



ProteCol™ HPLC Column Specifications and Part Numbers

ProteCol™ Column	Stationary Phase	Pore Size (Å)	Particle Size (µm)	Pore Volume (ml)	Surface Area (m²/g)	Carbon Load (%)	Calculated Bonded Phase (µmol/m²)	ID Coverage (mm)	Length (mm)	Part Number
P C18 HQ105	C18 HQ	100	5	1.0 ± 0.1	440 ± 40	16.8	1.59	4.6	250	250100
P C18 HQ105	C18 HQ	100	5	1.0 ± 0.1	440 ± 40	16.8	1.59	4.6	150	250102
P C18 HQ105	C18 HQ	100	5	1.0 ± 0.1	440 ± 40	16.8	1.59	2.1	150	250107
P C18 HQ103	C18 HQ	100	3	1.0 ± 0.1	440 ± 40	17.1	1.62	2.1	150	250200
P C18 HQ103	C18 HQ	100	3	1.0 ± 0.1	440 ± 40	17.1	1.62	2.1	100	250202
P C18 HPH 125	C18 HPH	120	5	1.0 ± 0.1	300 ± 40	20.9	2.90	4.6	250	250110
P C18 HPH 125	C18 HPH	120	5	1.0 ± 0.1	300 ± 40	20.9	2.90	4.6	150	250112
P C18 HPH 125	C18 HPH	120	5	1.0 ± 0.1	300 ± 40	20.9	2.90	2.1	150	250117
Guard and Trap Columns										
P C18 HQ105 Guard	C18 HQ	100	5	1.0 ± 0.1	440 ± 40	6.8	1.59	2.1	10	250007
P C18 HQ105 Guard	C18 HQ	100	5	1.0 ± 0.1	440 ± 40	6.8	1.59	4.0	10	250009
P C18 HPH 125 Guard	C18 HPH	120	5	1.0 ± 0.1	300 ± 40	20.9	2.90	2.1	10	250013
P C18 HPH 125 Guard	C18 HPH	120	5	1.0 ± 0.1	300 ± 40	20.9	2.90	4.0	10	250015

Ako nás možno kontaktovať:

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