

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

**ProteCol™ HPLC Columns turn imagination into results**



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

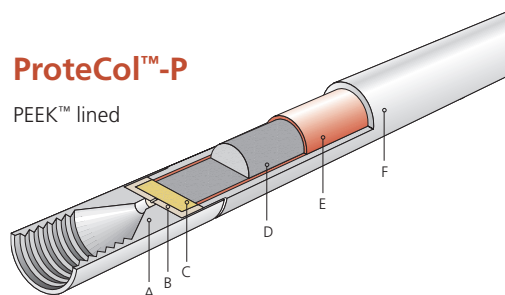
How do ProteCol™-P C18 HPLC Columns turn imagination into results?

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

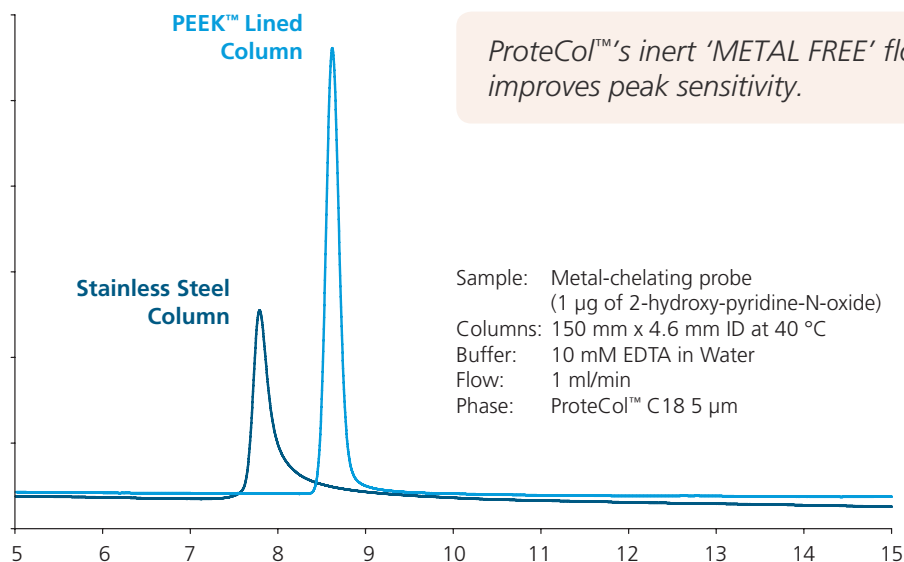


- A Column end cap
- B PEEK™ frit housing
- C Porous PEEK™ frit
- D Stationary phase
- E PEEK™ lining
- F Stainless steel column body

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

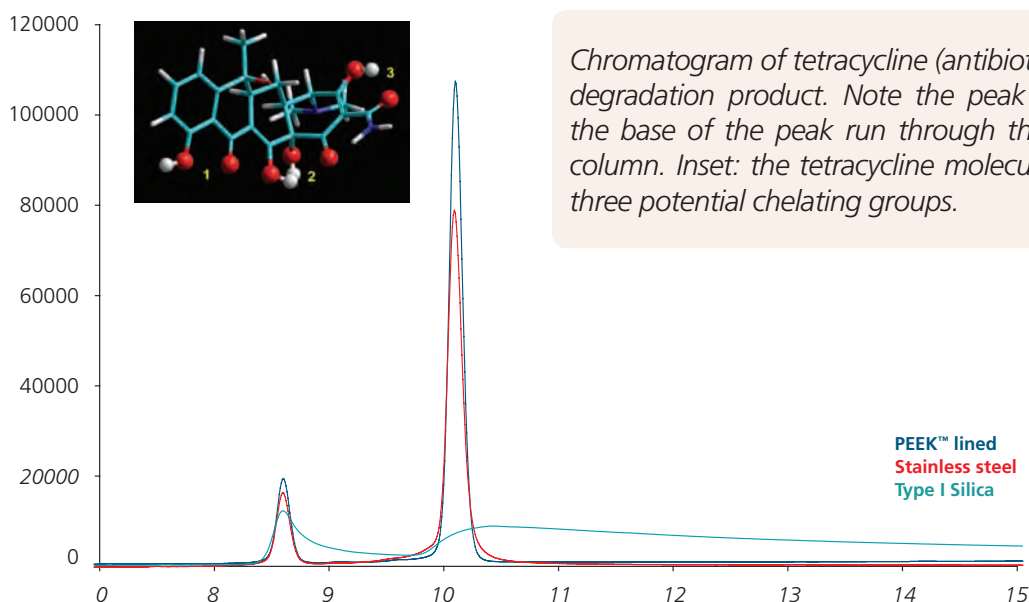


ProteCol™'s inert 'METAL FREE' flow path improves peak sensitivity.

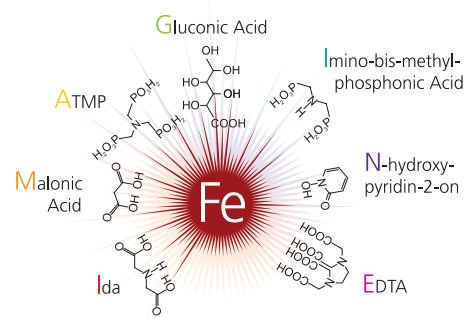
ProteCol™-P C18 columns turn imagination into results for chelating compounds such as natural products, delivering you these important benefits.

- 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

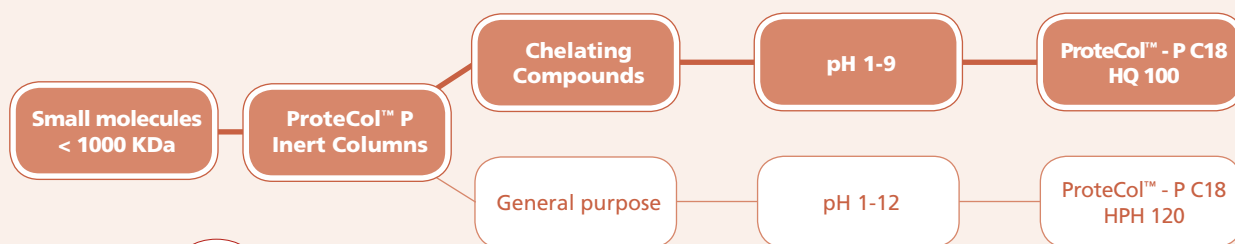
Improved peak sensitivity with ProteCol™-G C18 compared to stainless steel and silica columns



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 (m <sup>2</sup> /g)	Carbon Load (%)	Calculated Bonded Phase (µmol/m <sup>2</sup> )	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
<b>Guard and Trap Columns</b>										
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

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