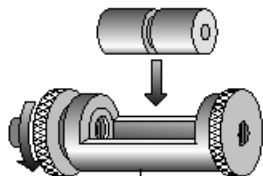


# Replacement of Old-Style VYDAC® Analytical Guard Cartridge and Holder with All-Guard™ Cartridge System

## Current VYDAC® Guard Holder and Guard Cartridge

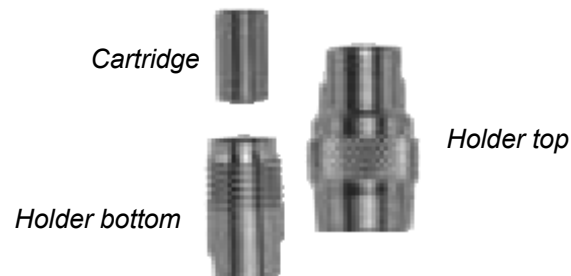


*“All-Guard™” Cartridge Dimensions: 4.6 mm ID x 7.5 mm L*



**All-Guard™ Holder**  
(Part No. 80101)

## Previous VYDAC® Guard Holder and Guard Cartridge

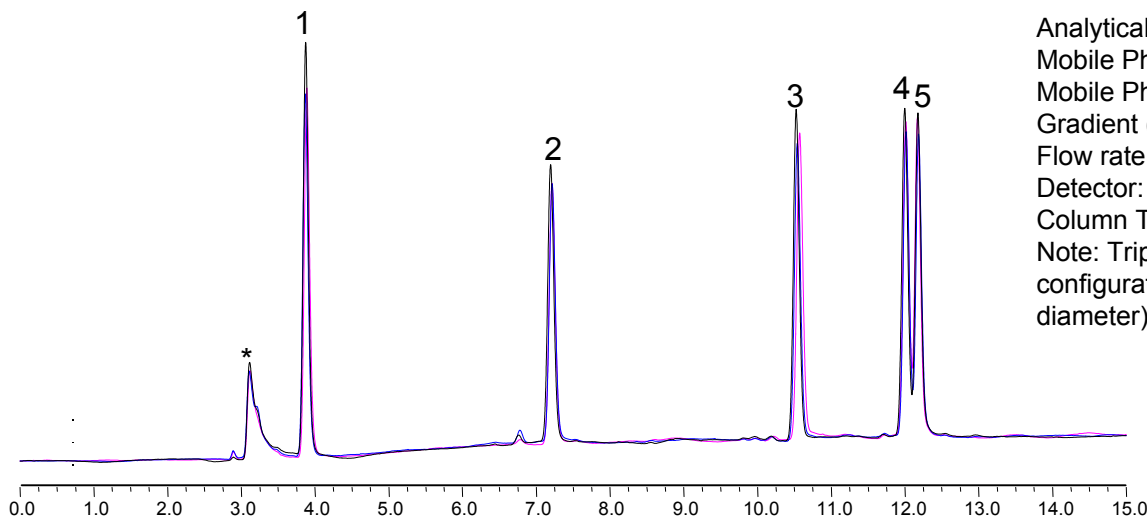


*“GD54” Cartridge Dimensions: 4.6 mm ID x 10 mm L*

- Standard finger-tight connections will connect to the All-Guard™ holder just the same as to the previous holder.
- The packing material in both the All-Guard™ and the previous VYDAC cartridges is the same VYDAC media tested using the original release criteria.
- The separation performance will not be affected using the All-Guard™ versus previous cartridge.

# Comparison of Peptide Separation on Previous and Current VYDAC® Guard Cartridges

## Previous VYDAC® Guard Holder and 214GD54 Cartridge

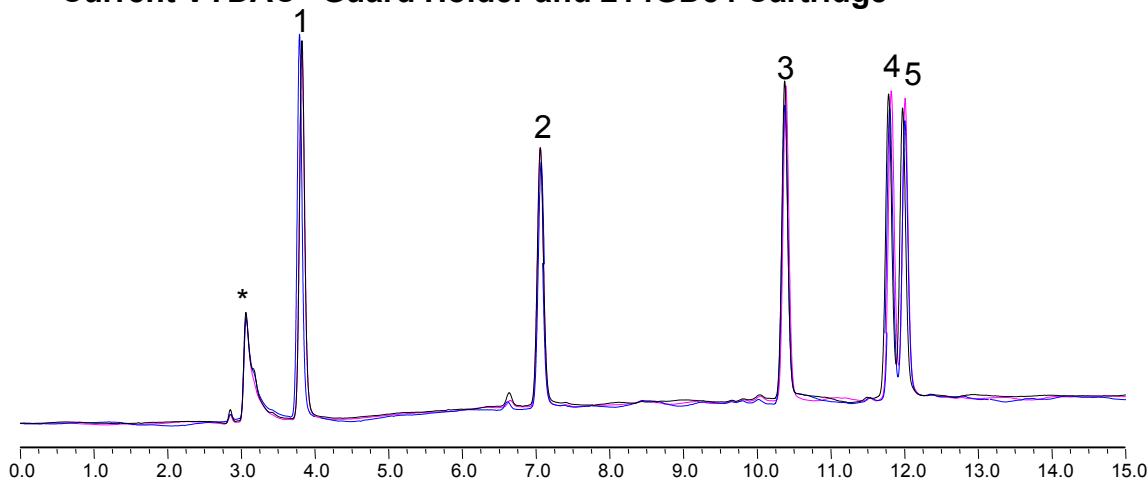


Analytical Column: VYDAC 214TP54 (C4, 300Å, 5µm, 4.6x250 mm)  
 Mobile Phase A: 0.1% TFA in Water  
 Mobile Phase B: 0.085% TFA in Acetonitrile  
 Gradient (min., %B): (0, 10), (15, 40)  
 Flow rate: 1.0 mL/min.  
 Detector: UV at 215 nm  
 Column Temperature: 22°C  
 Note: Triplicate runs were performed (overlays shown) with each configuration. The same connection tubing (length and inner diameter) was used.

### Peptides:

- \* Sample contaminant
- 1. GY (238 Da)
- 2. VYV (379 Da)
- 3. Met Enkephalin (YGGFM, 573 Da)
- 4. Angiotensin II (DRVYIHPF, 1045 Da)
- 5. Leu Enkephalin (YGGFL, 555 Da)

## Current VYDAC® Guard Holder and 214GD54 Cartridge



Peak	Average Retention Time (min.)		
	Previous	Current	Difference
1	3.88	3.81	0.07
2	7.21	7.03	0.17
3	10.55	10.38	0.17
4	12.01	11.81	0.20
5	12.18	12.01	0.17