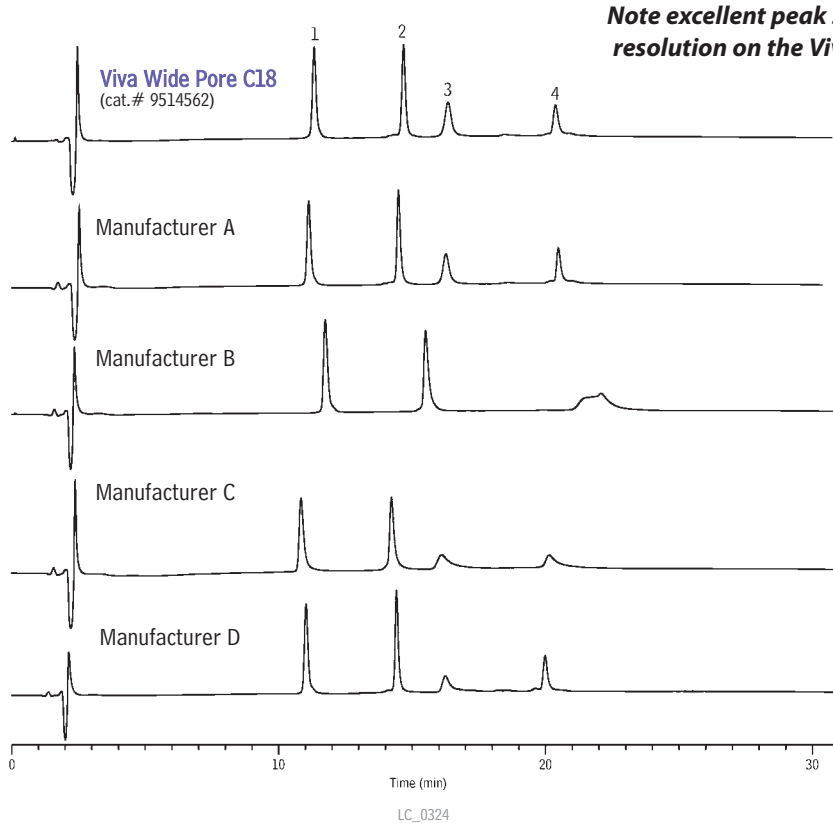


Protein Mix on Viva C18



Note excellent peak shapes and resolution on the Viva column!

Peak List	Ret. Time (min.)
1. ribonuclease A	11.31
2. cytochrome c	14.65
3. holo-transferrin	16.32
4. apomyoglobin	20.34

Sample:
 Inj.: 20µL
 Conc.: 0.08mg/mL each protein
 Sample diluent: 0.10% TFA in water / 0.10% TFA in acetonitrile, 80:20, v/v
 Sample temp.: 25°C

Columns: **Wide Pore C18**
 Dimensions: 150mm x 2.1mm
 Particle size: 5µm
 Pore size: 300Å

Conditions:
 Mobile phase: A: 0.10% TFA in water, B: 0.10% TFA in acetonitrile, 20% B to 70% B in 30 min.

Flow: 0.20mL/min.
 Temp.: 25°C (or ambient)
 Det.: UV @ 214nm

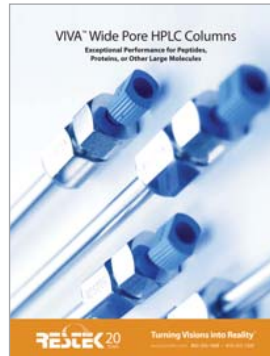
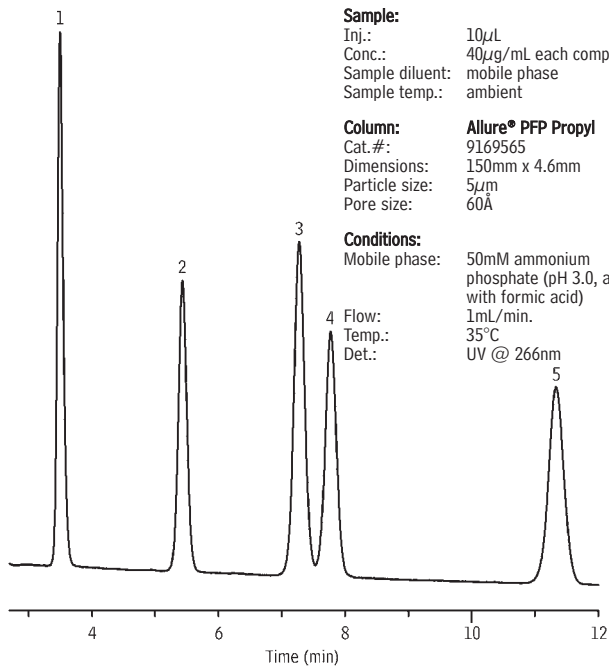
Catecholamines on Allure® PFP Propyl

Peak List	Retention Time (min.)
1. norepinephrine	3.50
2. levodopa	5.43
3. epinephrine	7.27
4. tyrosine	7.77
5. dopamine	11.3

Sample:
 Inj.: 10µL
 Conc.: 40µg/mL each component
 Sample diluent: mobile phase
 Sample temp.: ambient

Column: **Allure® PFP Propyl**
 Cat.#: 9169565
 Dimensions: 150mm x 4.6mm
 Particle size: 5µm
 Pore size: 60Å

Conditions:
 Mobile phase: 50mM ammonium phosphate (pH 3.0, adjusted with formic acid)
 Flow: 1mL/min.
 Temp.: 35°C
 Det.: UV @ 266nm



free literature

Viva Wide Pore HPLC Columns

Exceptional Performance for Peptides, Proteins, or Other Large Molecules

HPLC packings with pore diameters of 250-350 Angstrom best combine stability and retention of analytes with molecular weights larger than 3000. A narrow distribution about the mean pore diameter can aid in separating analytes of similar hydrodynamic size, and a large pore volume better separates complex mixtures. Of the commercial materials we tested, Viva silica has the greatest available surface area in 250-350 Angstrom pores, and the greatest percentage of pores narrowly distributed around the mean diameter. Among C18 columns we tested, Viva columns ranked highest in retention and selectivity, and produced the best peak symmetry. 4-page publication.

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