

HPLC Application

ID No.: 18063

Column Diameter Study with Luna 5u C18(2) 50 x 21.2mm

Column: Luna® 5 µm C18(2) 100 Å, LC Column 50 x 21.2 mm, AXIA™ Packed, Ea

Dimensions: 50 x 21.2 mm ID

Order No: 00B-4252-P0-AX

Elution Type: Gradient

Eluent A: 0.5% TFA in Acetonitrile

Eluent B: 0.5% TFA in Water

Gradient Profile:	Step No.	Time (min)	Pct A	Pct B
	1	0	5	95
	2	5	95	5

Flow Rate: 30

Col. Temp.: ambient

Detection: UV-Vis Abs.-Variable Wave.(UV) @ 254 nm (ambient)

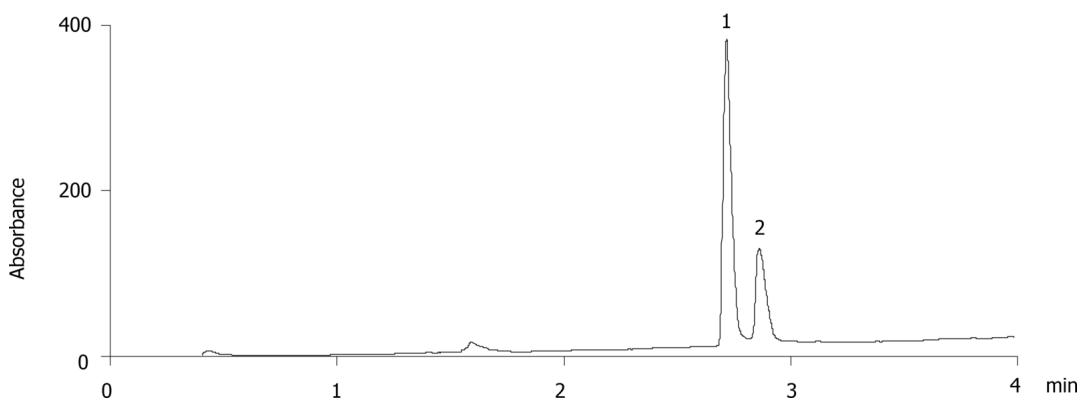
Analyst Note: Comparison of column diameter on preparative separations using Axia-packed columns in various diameters: 4.6 (conventional hardware), 21.2, 30 and 50mm (cf: App IDs: 18062 - 18065). Load varied by diameter as follows:

- 4.6mm: 64 µg in 21 µL DMSO (scaling factor = 1)
- 21.2mm: 1.2 mg in 420 µL DMSO (scaling factor = 20)
- 30mm: 2.4 mg in 840 µL DMSO (scaling factor = 40)
- 50mm: 7.3 mg in 2100 µL DMSO (scaling factor = 118)

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Products used in this application:



ANALYTES:

- 1 Propranolol
- 2 Diphenhydramine

