

HPLC Application

ID No.: 18064

Column Diameter Study with Luna 5u C18(2) 50 x 30mm

Column: Luna® 5 µm C18(2) 100 Å, LC Column 50 x 30 mm, AXIA™ Packed, Ea

Dimensions: 50 x 30 mm ID

Order No: 00B-4252-U0-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: 60

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:

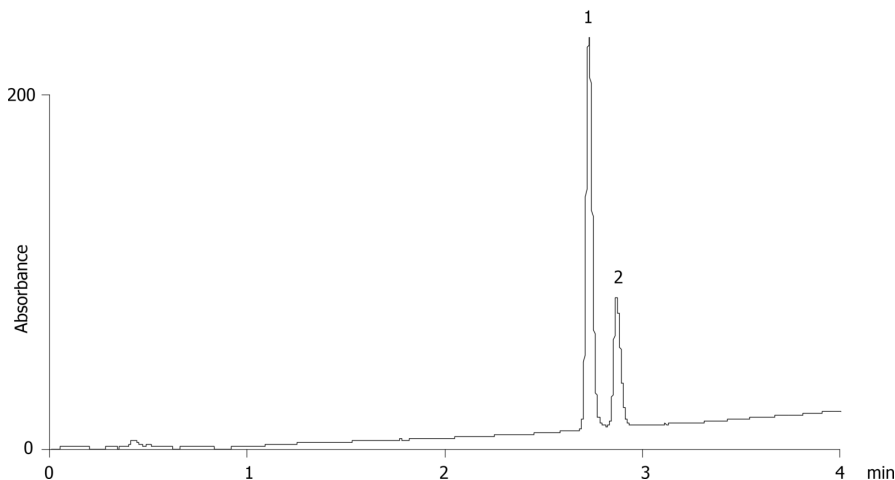
- 4.6mm: 64 µg in 21 µL DMSO (scaling factor = 1)
- 21.2mm: 1.2 mg in 420 µL DMSO (scaling factor = 20)
- 30mm: 2.4 mg in 840 µL DMSO (scaling factor = 40)
- 50mm: 7.3 mg in 2100 µL DMSO (scaling factor = 118)



Products used in this application:



18064



ANALYTES:

- 1 Propranolol
- 2 Diphenhydramine

