

# HPLC Application

ID No.: 18062

## Column Diameter Study with Luna 5u C18(2) 50 x 4.6mm

**Column:** Luna® 5 µm C18(2) 100 Å, LC Column 50 x 4.6 mm, Ea

**Dimensions:** 50 x 4.6 mm ID

**Order No:** 00B-4252-E0

**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:** 1.5 mL/min

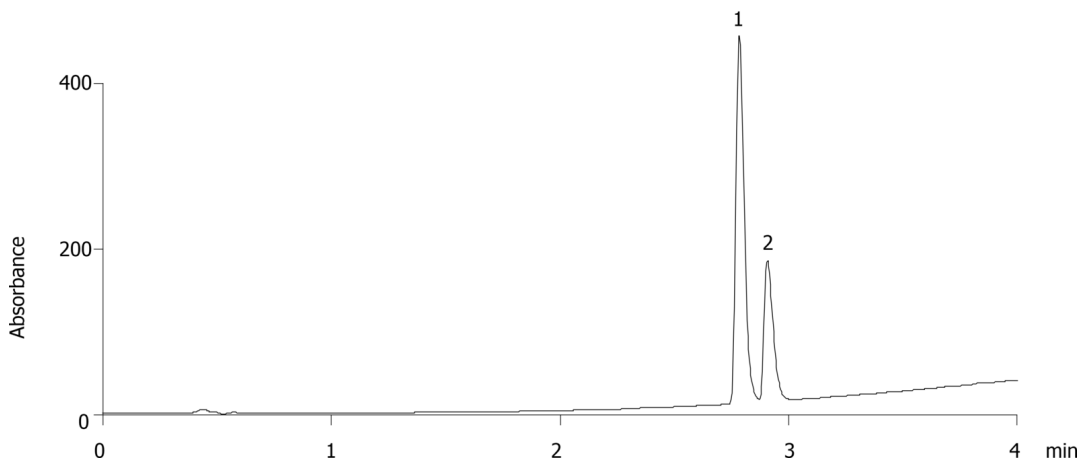
**Col. Temp.:** ambient

**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:

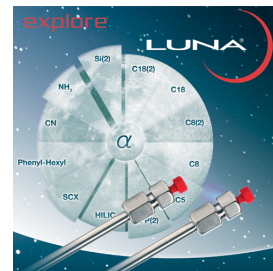
- 4.6mm: 64 µg in 21 µL DMSO (scaling factor = 1)
- 21.2mm: 1.2 mg in 420 µL DMSO (scaling factor = 20)
- 30mm: 2.4 mg in 840 µL DMSO (scaling factor = 40)
- 50mm: 7.3 mg in 2100 µL DMSO (scaling factor = 118)

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### ANALYTES:

- 1 Propranolol
- 2 Diphenhydramine



Products used in this application:

