



nanghavi.

CHROMATOGRAPHY COLUMNS

 **SILVER**TM
HPLC COLUMNS



- HIGH REPRODUCIBILITY
- HIGH PLATE NUMBERS
- LOW BACK PRESSURE
- GOOD RESOLUTION FOR BASIC COMPOUNDS
- GOOD VALUE

5 μm COLUMNS

Our columns listed at USP

Brand	Phase	Base Material	Particle Shape	Particle Size	Pore Size	Surface Area	Carbon Load	End-capped	USP L-Code
Silver HPLC	C18	Silica	Spherical	2, 3, 5 μm	120 \AA	300 m ² /g	20 %	Yes	L1
Silver HPLC	C8	Silica	Spherical	2, 3, 5 μm	120 \AA	300 m ² /g	12 %	Yes	L7
Silver HPLC	C4	Silica	Spherical	2, 3, 5 μm	120 \AA	300 m ² /g	8 %	Yes	L26
Silver HPLC	Silica	Silica	Spherical	2, 3, 5 μm	120 \AA	300 m ² /g	-	No	L3

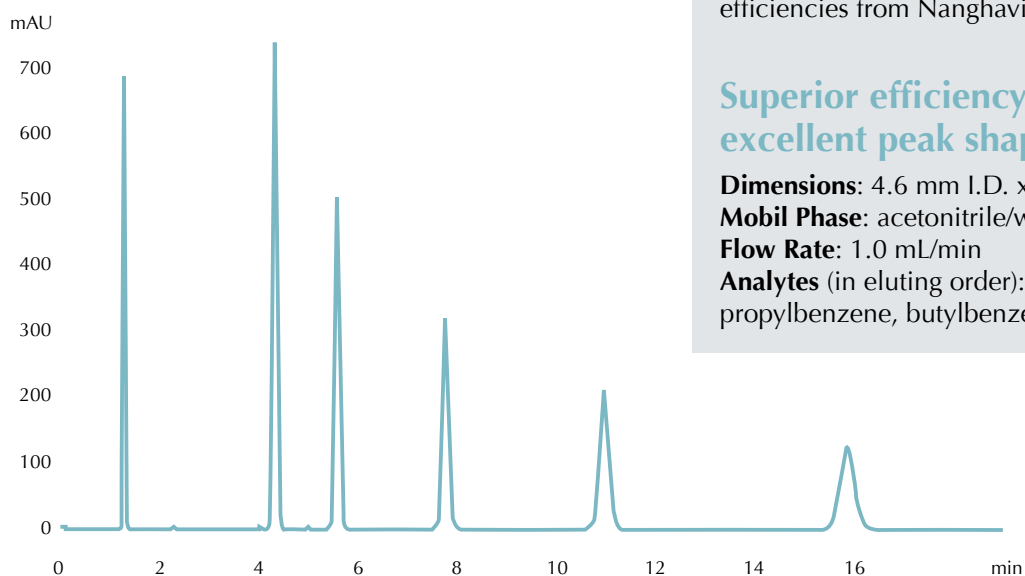
- Densely bonded C18 ligand on high quality porous silica
- Particles with a narrow size distribution range and a pore size of 120 \AA
- Excellent peak shape and efficiency with both neutral compounds and bases
- Chromatographic resin stable between pH 2-10 (C18) and pH 2-8 (C4 and C8)
- Outstanding reproducibility between columns and batches
- Other functions available C4, C8, Si

KEY FEATURES

- Ligand coverage 3.6 $\mu\text{mol}/\text{m}^2$
 - $d_{90}/d_{10} < 1.5$
- N0.5 (toluene) typically 80 000 plates/m
- USP tailing (toluene) < 1.1
- Reduced plate height (h) ≤ 2.0



Performance



Silver 5 μ m C18 columns

Chromatographical evaluation under neutral conditions reveals excellent peak shapes and efficiencies from Nanghavi Silver HPLC-columns.

Superior efficiency and excellent peak shape

Dimensions: 4.6 mm I.D. x 150 mm

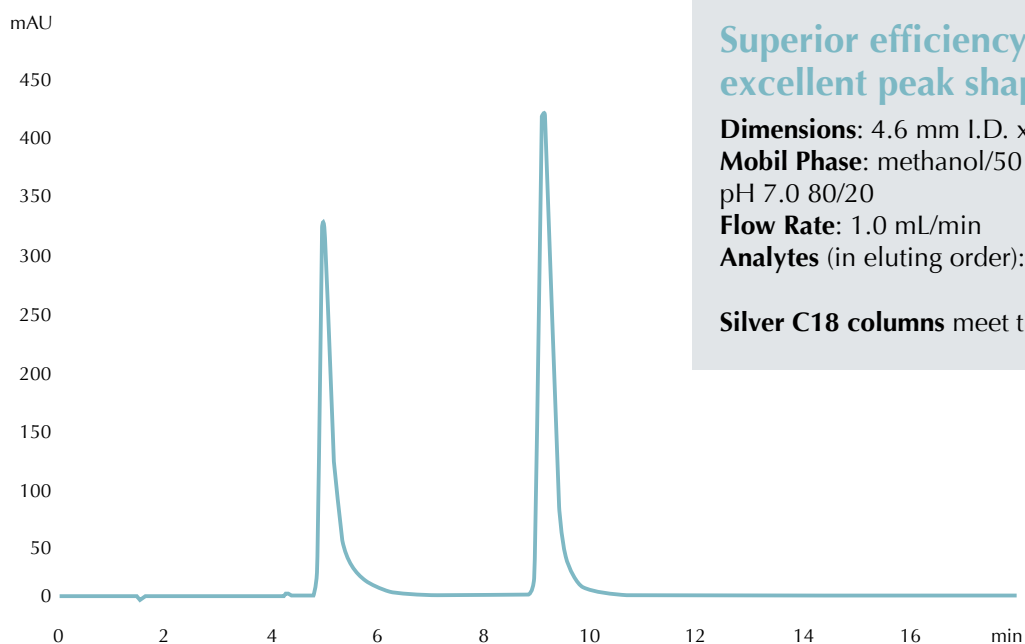
Mobil Phase: acetonitrile/water 70/30

Flow Rate: 1.0 mL/min

Analytes (in eluting order): uracil, toluene, ethylbenzene, propylbenzene, butylbenzene, pentylbenzene

By virtue of its homogeneous silica surface and the high ligand densities, analytes display unrivalled peak shapes and the absence of non-linear adsorption isotherms.

Efficiency with bases



Anti-depressants

Columns from Nanghavi shows high efficiencies and low tailing.

Superior efficiency and excellent peak shape

Dimensions: 4.6 mm I.D. x 150 mm

Mobil Phase: methanol/50 mM K-phosphate buffer pH 7.0 80/20

Flow Rate: 1.0 mL/min

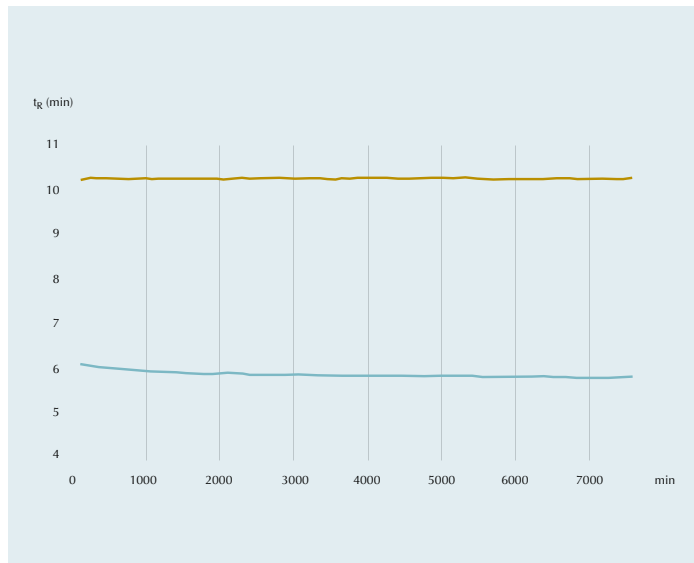
Analytes (in eluting order): nortriptyline, amitriptyline

Silver C18 columns meet the specifications of USP L1

Utilizing Nanghavi Silver columns with your HPLC instrument will offer the most reliable and reproducible results. Do not compromise in science.

Long term pH Stability

— Nortriptyline — Ethylbenzene



Test conditions

Mobile phase A: 0.1 % TFA, pH 1.9

Mobile phase B: Acetonitrile

Flow rate: 1 ml/min

Temperature: 45°C

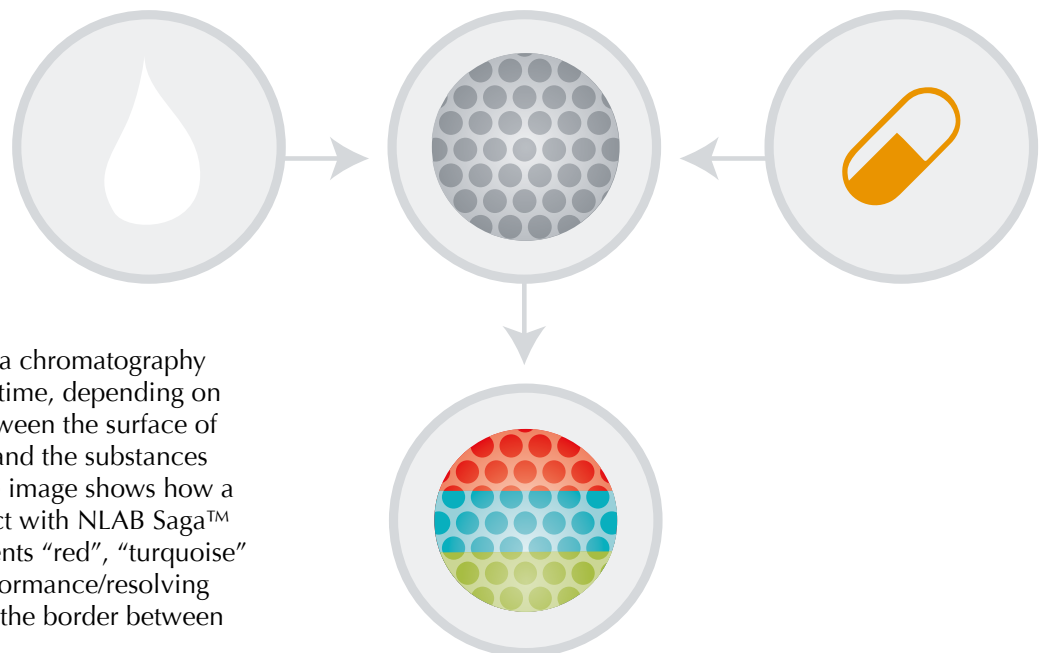
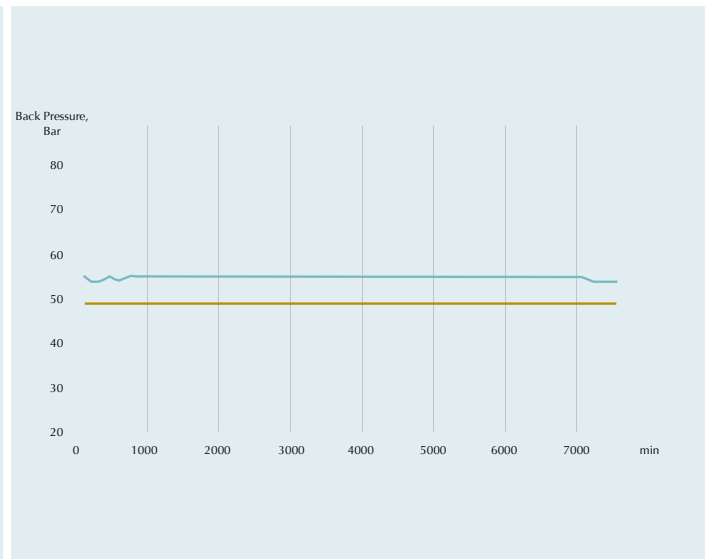
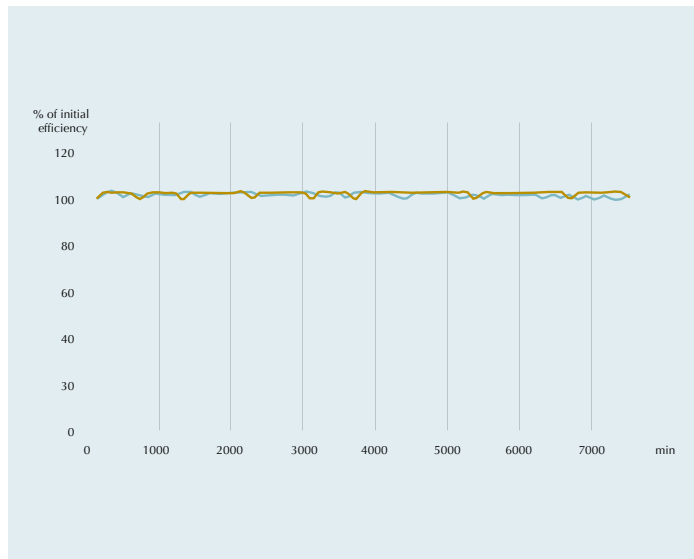
Gradient cycle:

time (min)	% B
0	10
5	90
7	90
8	10
10	10

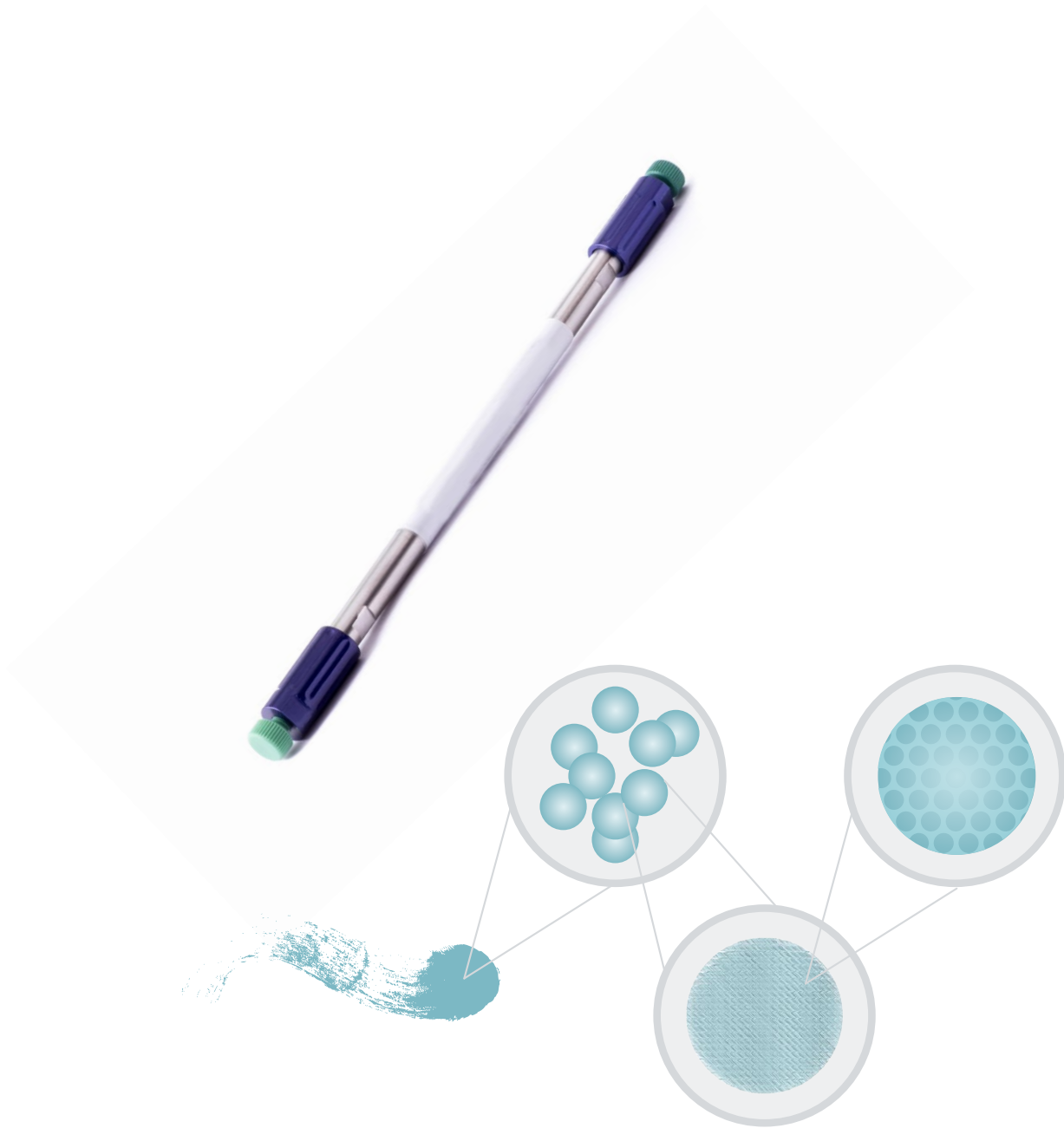
Test nortriptyline: A/B (35/65)

Test ethylbenzene: A/B (50/50)

Test cycle: 6 × gradient + tests = 120 min/cycle



Different substances remain in a chromatography column for different lengths of time, depending on how much attraction exists between the surface of the compacted silica particles and the substances which are pressed through. The image shows how a drug mixture (orange) in contact with NLAB Saga™ is divided up into the components “red”, “turquoise” and “green”. The column’s performance/resolving power appears to be good and the border between the respective colors is sharp.



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