



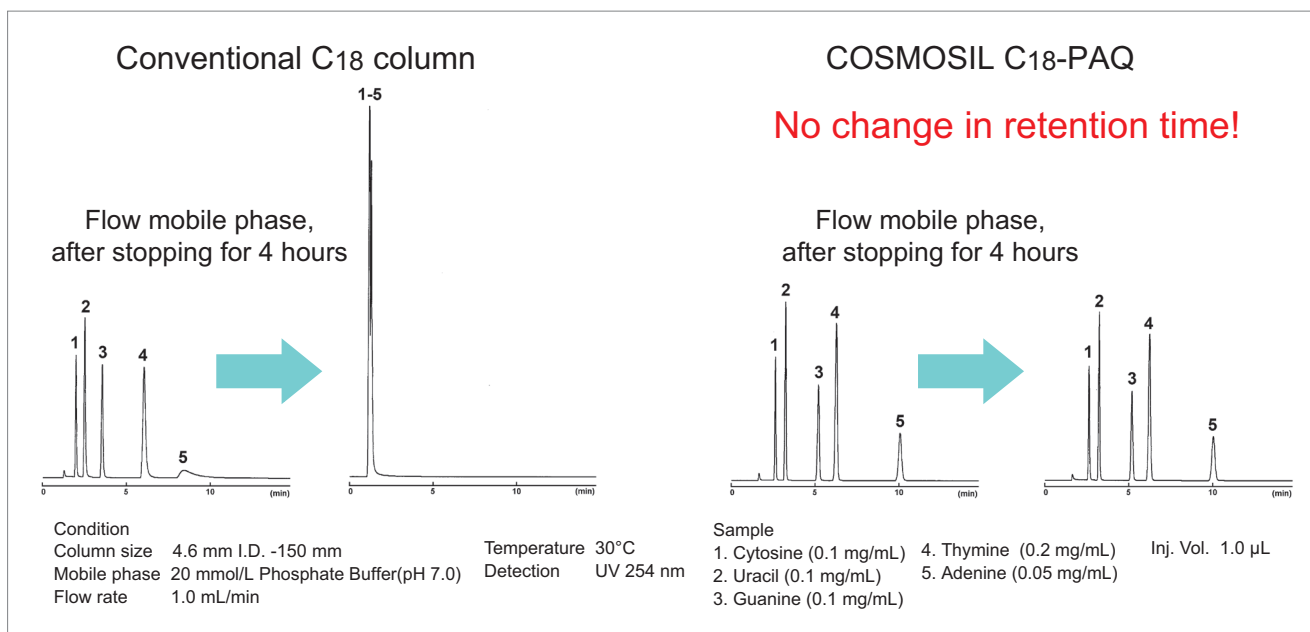
COSMOSIL

Octadecyl Bonded HPLC Column

# COSMOSIL C<sub>18</sub>-PAQ

- *Compatible with 100% water-based mobile phase*
- *Suitable for hydrophilic compounds*

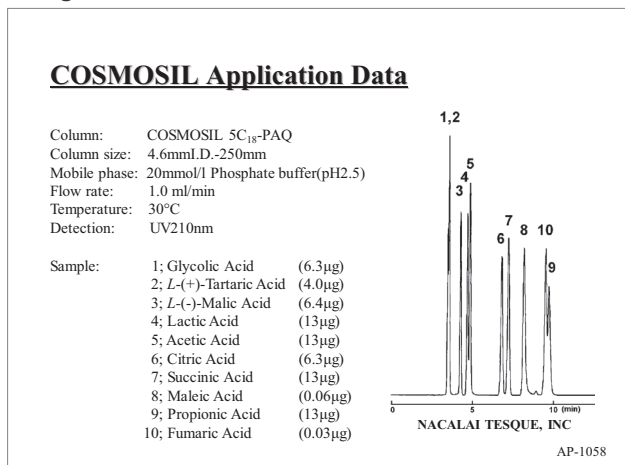
## Stable Performance



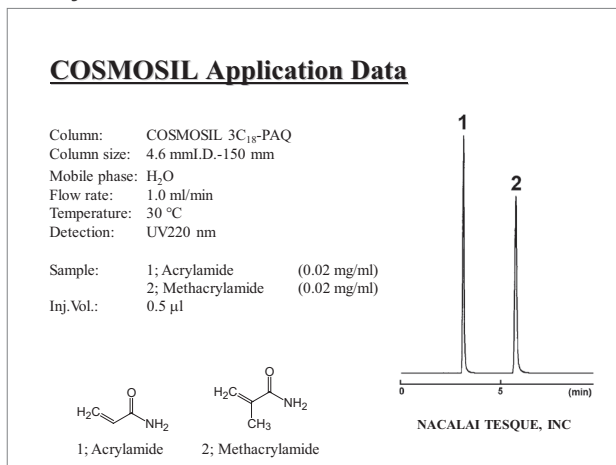
This figure shows the change in retention time for nucleobases with 100% aqueous mobile phase (20 mmol/L phosphate buffer, pH 7.0). Flow of mobile phase was stopped for 4 hours, then the sample was analyzed under the same conditions again. With the conventional C<sub>18</sub> column, 100% aqueous mobile phase resulted in a shorter retention time after the break. This is because the surface of the highly hydrophobic packing material and water do not easily mix with each other, so water escapes from the pores. COSMOSIL C<sub>18</sub>-PAQ has a more hydrophilic surface than conventional C<sub>18</sub> columns and is solvated with the mobile phase, so stable retention time is maintained.

## Applications

### • Organic acids



### • Acrylamides



Since COSMOSIL C<sub>18</sub>-PAQ can be used under 100% water, it is possible to analyze highly hydrophilic organic acids and acrylamides, which are difficult with conventional C<sub>18</sub> columns.

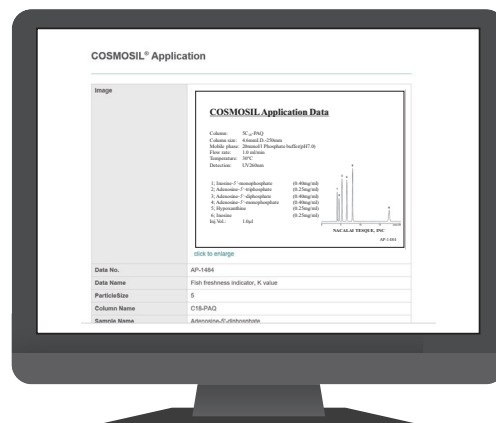
## COSMOSIL Applications

- More than 7,800 applications (577 data for C<sub>18</sub>-PAQ)
- Easy to search

Web site

<https://www.nacalai.co.jp/cosmosil/data/csmsrchtop.cfm?lc=E>

COSMOSIL Application 



## Ordering Informations

### • COSMOSIL 5C<sub>18</sub>-PAQ Analytical / Preparative Columns (Particle Size: 5 µm)

Column Size I.D. x Length (mm)	Product Number	Column Size I.D. x Length (mm)	Product Number	Column Size I.D. x Length (mm)	Product Number
2.0 x 50	05794-41	4.6 x 150	02486-71	4.6 mm I.D. x 10 mm	02484-91
2.0 x 100	05470-71	4.6 x 250	02485-81	4.6 mm I.D. x 10 mm cartridge*	19181-44
2.0 x 150	34449-71	10 x 50	05801-31	10 x 20	34457-61
2.0 x 250	05795-31	10 x 150	34466-41	20 x 20	05803-11
3.0 x 100	05796-21	10 x 250	34376-21	28 x 50	24455-81
3.0 x 150	05797-11	20 x 150	34476-11	4.6 mm I.D. Cartridge Holder	38009-79
3.0 x 250	05798-01	20 x 250	34373-51		
4.6 x 50	34451-21	28 x 250	34456-71		
4.6 x 100	05799-91				

\*Cartridge Holder is required.

### • COSMOSIL 3C<sub>18</sub>-PAQ Analytical Columns (Particle Size: 3 µm)

Column Size I.D. x Length (mm)	Product Number	Column Size I.D. x Length (mm)	Product Number	Column Size I.D. x Length (mm)	Product Number
2.0 x 50	19773-81	3.0 x 150	19788-01	2.0 mm I.D. x 10 mm cartridge*	19874-74
2.0 x 75	19774-71	3.0 x 250	19789-91	4.6 mm I.D. x 10 mm cartridge*	19875-64
2.0 x 100	19779-21	4.6 x 50	19869-41	2.0 mm I.D. Cartridge Holder	11884-71
2.0 x 150	19780-81	4.6 x 75	19870-01	4.6 mm I.D. Cartridge Holder	38009-79
2.0 x 250	19781-71	4.6 x 100	19871-91		
3.0 x 50	19784-41	4.6 x 150	19872-81		
3.0 x 75	19786-21	4.6 x 250	19873-71		
3.0 x 100	19787-11				

\*Cartridge Holder is required.

For research use only, not intended for diagnostic or drug use.