





# Take The Fast Track!

Onyx puts your sample throughput on the fast track, avoiding many problems associated with particulate columns.

Onyx Monolithic Columns |



**Finish First** 

- Particulate Columns High backpressures limit faster flow rates to speed analysis time
  - Biological samples clog column without lengthy sample cleanup procedures
  - Re-equilibration time between samples slows overall sample throughput

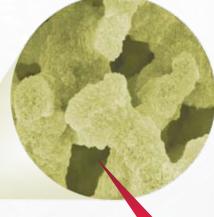
# **How It Works!**

Using a fused silica rod with a bimodal pore structure, Onyx provides the ideal vehicle for fast sample throughput without the concerns of high backpressures or column failure due to contamination.

The fused silica rod has a high mechanical strength and permeability, allowing fast flow rates without compromising structural integrity.

### **Macroporous Structure**

The 1.5 µm\* macropores provide highly efficient channels through the silica rod, enabling fast flow rates without the eddy diffusion problems associated with particu late columns.



### **Mesoporous Structure** The 130 Å mesopores provide the high

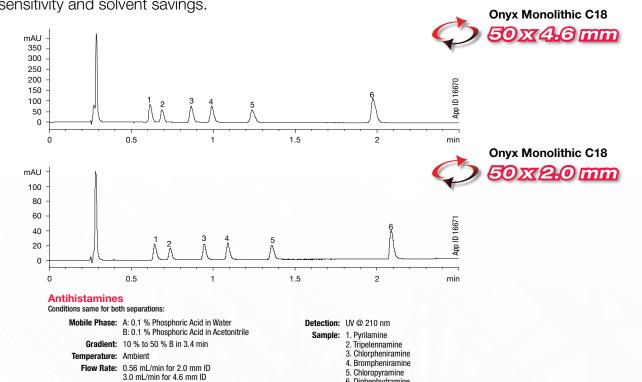
surface area needed (300 m²/g) for solute interaction with the stationary phase, leading to successful chromatographic separation.

 $^{\star}50~x~2.0~m$  ID only. Other Onyx columns have 2.0  $\mu m$  macropores

# Versatile Performance!

Onyx can be used in a variety of reversed phase methods – anytime you want the advantage of speed and throughput, put Onyx to the test!

You can also scale existing Onyx methods to the new 50 x 2.0 mm ID to gain advantages in sensitivity and solvent savings.



# **Ordering Information**

| Part No.      | Size (mm)  | Description         | Price |
|---------------|------------|---------------------|-------|
| Capillary Co  | lumns      |                     |       |
| CH0-7646      | 150 x 0.1  | Onyx Monolithic C18 |       |
| Analytical Co | olumns     |                     |       |
| CH0-8373      | 50 x 2.0   | Onyx Monolithic C18 |       |
| CH0-8158      | 100 x 3.0  | Onyx Monolithic C18 |       |
| CH0-7643      | 100 x 4.6  | Onyx Monolithic C18 |       |
| CH0-7644      | 50 x 4.6   | Onyx Monolithic C18 |       |
| CH0-7645      | 25 x 4.6   | Onyx Monolithic C18 |       |
| Other Phases  | Available: |                     |       |
| CH0-7647      | 100 x 4.6  | Onyx Monolithic C8  |       |
| CH0-7648      | 100 x 4.6  | Onyx Monolithic Si  |       |
| SemiPrep Co   | olumns     |                     |       |
| CH0-7878      | 100 x 10.0 | Onyx Monolithic C18 |       |
|               |            |                     |       |
|               |            |                     |       |

| Part No.     | Size (mm)   | Description                             | Price |
|--------------|-------------|---|-------|
| Guard Cartri | dge System  |   |       |
| KJ0-7651     | 5 x 4.6     | Onyx Monolithic C18 Guard Cartridge     |       |
|              |             | Kit (3 pk cartridges + holder + wrench) |       |
| CH0-7649     | 5 x 4.6     | Onyx Monolithic C18 Guard ( 3/pk)       |       |
| KJ0-7652     | 10 x 4.6    | Onyx Monolithic C18 Guard Cartridge     |       |
|              |             | Kit (3 pk cartridges + holder + wrench) |       |
| CH0-7650     | 10 x 4.6    | Onyx Monolithic C18 Guard ( 3/pk)       |       |
| Method Valid | dation Kit  |   |       |
| KH0-7653     | 100 x 4.6   | Onyx Monolithic C18 Method Validation   |       |
|              |             | Kit (3 columns from different batches)  |       |
| Column Cou   | pler        |   |       |
| AQ0-7654     |             | Onyx Column Coupler                     |       |
| Column Perf  | ormance Che | ck Standards                            |       |
| AL0-7835     |             | Onyx Monolithic NP (Normal Phase) for   |       |
|              |             | Si (Silica) columns, 2 mL               |       |
| AL0-7836     |             | Onyx Monolithic RP (Reversed Phase)     |       |
|              |             | for C8 and C18 columns, 2 mL            |       |

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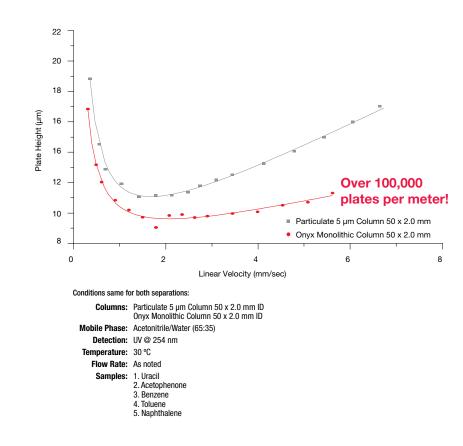
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### **High Efficiencies**

Onyx 2.0 mm ID columns have a reduced macropore of 1.5 µm, providing excellent efficiencies.



# Fast. Efficient. Unstoppable. ONEX: 2.0 mm ID Preserve 2.0 mm ID

### You Have A Problem

Countless numbers of samples need to be analyzed and separated by HPLC and you only have a limited amount of time.

### **Enter The Solution**

New Onyx™ 2.0 mm ID columns put sample throughput on the fast track! Monolithic technology brings substantial benefits, not just in speed of analysis, but by decreasing time taken up by rate-limiting processes in sample throughput, such as re-equilibration times and sample cleanup.





with the performance of Onyx simply return the product within 45 days for a FULL REFUND.

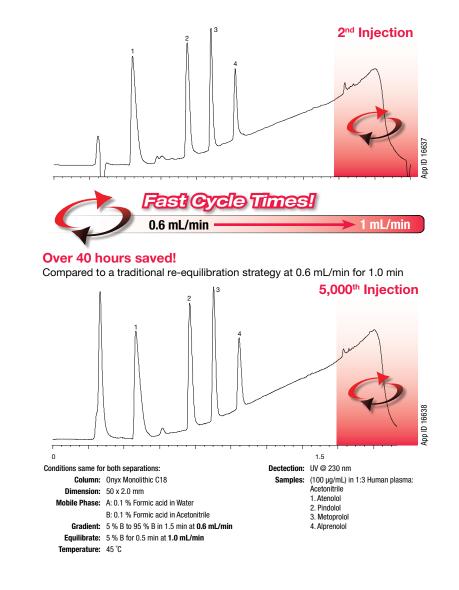
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# Faster Throughput for BioAnalytical Samples

In DMPK/ADME and clinical environments, polar drugs and metabolites must be separated from complex matrices. This often involves rigorous sample cleanup procedures prior to injection onto the HPLC. In addition, aggressive gradient conditions often employed require lengthy column re-equilibration times between injections.

With backpressure no longer a concern, gradient cycle times can be decreased by increasing flow rate during the hold and re-equilibration step, significantly improving the speed of sample throughput.



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### High Permeability Results in Low Pressure and Long Lifetime

Onyx offers advantages when it comes to difficult samples. With the highly permeable monolithic structure, time consuming sample preparation steps can be drastically reduced. Viscous solvents and dirty samples enter onto the monolithic silica rod directly. There are no frits to be clogged and steady pressure readings are produced run after run.



