

Retaining Polar Compounds

T3 columns are ideal for polar compound retention

What is a T3 column?

T3 reversed-phase columns are designed for separating polar compounds. An optimized particle pore size and C₁₈ surface concentration enables reliable operation with 100% aqueous mobile phases needed for retaining highly polar analytes. Waters® offers a full range of CORTECS® Solid-Core T3, XSelect® HSS T3/ACQUITY UPLC® HSS T3, and Atlantis® Silica T3 columns and method validation kit options based on your separations needs.

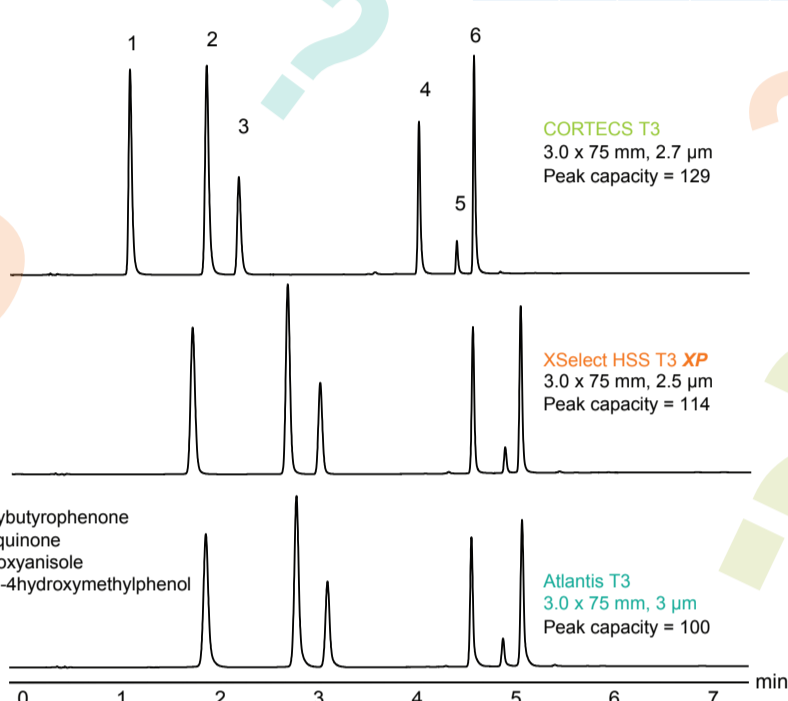
www.waters.com/T3

HOW TO IDENTIFY WHICH T3 COLUMN IS RIGHT FOR YOU

System: ACQUITY® Arc™ with 2998 PDA
 Mobile phase A: Water
 Mobile phase B: Acetonitrile
 Mobile phase C: Methanol
 Mobile phase D: 2% Formic acid in water
 Flow rate: 0.85 mL/min
 Injection volume: 2.1 µL
 Column temperature: 30 °C

Gradient:

Time (min)	% A	% B	% C	% D
0.00	60	17.5	17.5	5
2.00	40	27.5	27.5	5
3.00	14	40	41	5
7.50	14	40	41	5



DID YOU KNOW?

Fully-porous packing materials such as Atlantis T3 and HSS T3, exhibit higher retention, while the solid-core packing materials used in CORTECS T3 is designed for maximum efficiency and peak capacity.

Are faster run times and improved resolutions most important?

Is the ability to easily transfer methods to other platforms most important?

Is isolating and purifying polar compounds most important?

CORTECS®
COLUMNS

Balanced retention for polar analytes

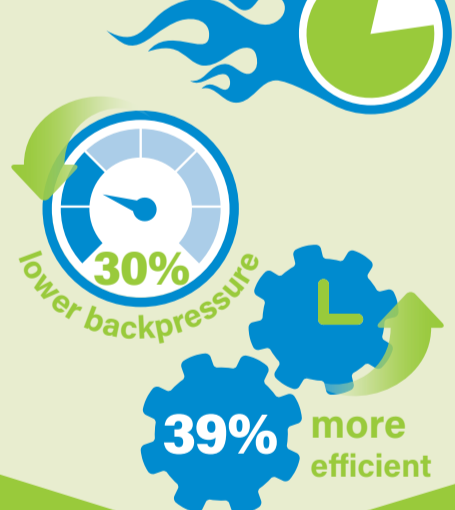
Acquity UPLC® **XSELECT®** Columns

Universal polar compound retention

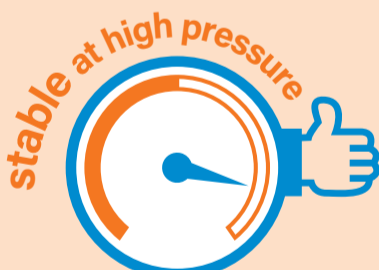
Atlantis®
Columns

High mass loading and retention

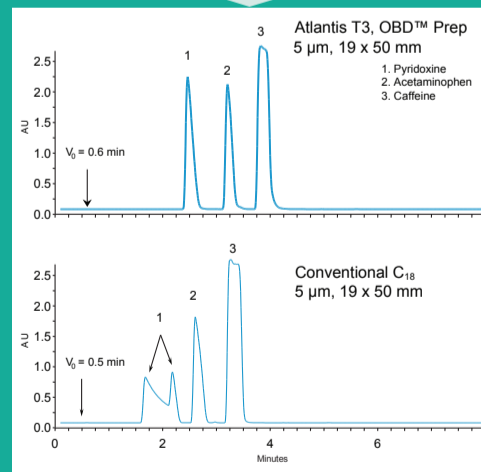
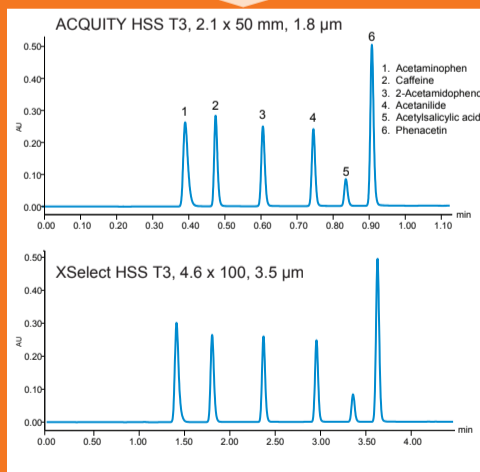
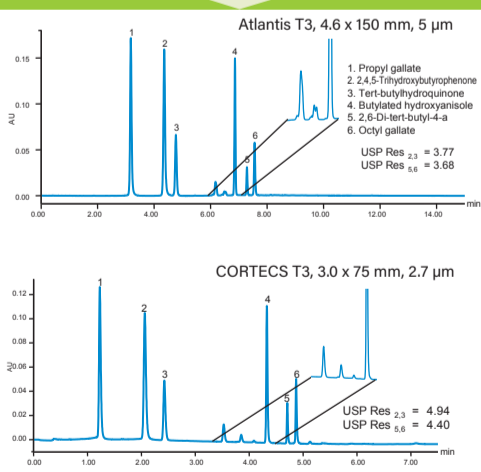
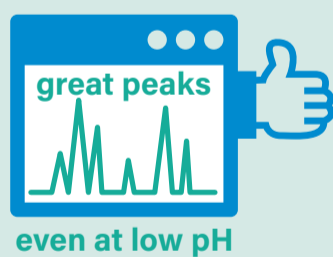
faster analysis = more info in less time



easily transfer methods



2x more retention



The higher efficiency of the CORTECS T3 column provides faster runtimes while improving resolution.

Because ACQUITY HSS T3 and XSelect HSS T3 differ only in particle size, transfer between columns and instrument platforms is straightforward.

Atlantis T3 preparative columns outperform conventional C₁₈ columns for polar compound loading.