

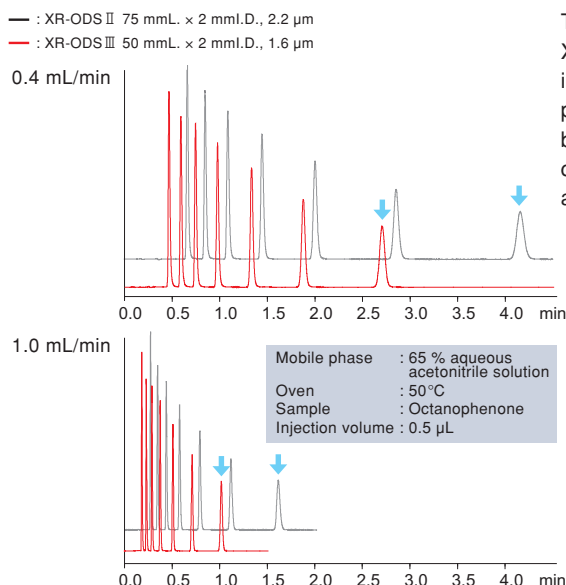


Shimadzu UHPLC packed column

Shim-pack XR-ODS III

A new lineup has been added to the Shim-pack XR series of columns to better suit your analysis goals. Available at particle sizes of 1.6 μm and 2.2 μm , in varying lengths, the Shim-pack XR-ODS III was designed to accommodate demands for shorter analysis times while maintaining the high resolution that only a UHPLC can provide.

Achieves even higher speeds while maintaining resolution in ultra fast analysis



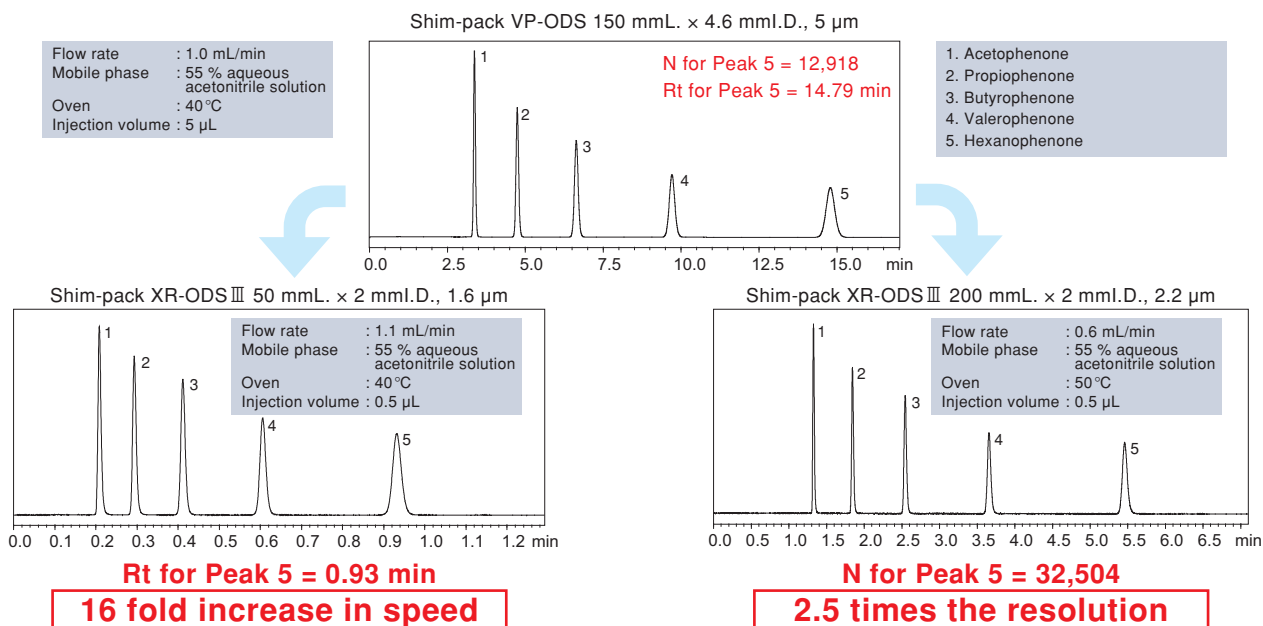
The sample analysis at left compares results between the Shim-pack XR-ODS II and the Shim-pack XR-ODS III. Analysis times have been reduced in proportion to the decrease in column length. Further, while the theoretical plate number is essentially the same, with the Shim-pack XR-ODS III, there is basically no impact from the flow rate. As a result, the Shim-pack XR-ODS III column is capable of achieving higher speed in a conventional ultra fast analysis, while maintaining the theoretical plate number.

Flow Rate	XR-ODS II	XR-ODS III	Increase in Speed
0.4 mL/min	4.16 min	2.70 min	Approx. 1.5x
1.0 mL/min	1.60 min	1.01 min	

Flow Rate	XR-ODS II	XR-ODS III
0.4 mL/min	13733	11026
1.0 mL/min	10400	10858
Rate of Reduction	24.3%	1.5%

Select a column to suit your purpose, whether shorter analysis times or high resolution

The Shim-pack XR-ODS III lineup features two columns: a short one utilizing a packing material with a particle size of 1.6 μm ; and a long one utilizing a 2.2 μm particle size, which is equivalent to the conventional XR column. This extensive lineup ensures that you can select a column to suit your analysis objectives, whether it's a short size to further shorten analysis times, or a long size to achieve high resolution while retaining the ease of use of the conventional XR column.



Shim-pack XR Column Lineup

There are three types of Shim-pack XR columns, offering a pressure tolerance of 35 MPa (XR-SIL is 20 MPa), 60 MPa, or 100 MPa. The XR-ODS (-C8, -Phenyl, -SIL) enables ultra fast analysis, even with conventional systems. The XR-ODS II aims for further resolution and ease of use. And the XR-ODS III achieves even shorter analysis times than the conventional XR column, while maintaining resolution. By offering a diverse choice of columns, Shimadzu is able to provide an ultra fast analysis environment to a wide range of users.

Stationary Phase	Name of Column	Particle Size	Pressure	Column Size	1.5 mmI.D.	2.0 mmI.D.	3.0 mmI.D.	4.6 mmI.D.
ODS	Shim-pack XR-ODS III	1.6 µm	100 MPa	50 mm	—	228-59922-91	—	—
				75 mm	—	228-59922-92	—	—
				150 mm	—	228-59910-91	—	—
				200 mm	—	228-59910-92	—	—
	Shim-pack XR-ODS II	2.2 µm	60 MPa	30 mm	228-59907-91	—	—	—
				50 mm	228-59907-92	228-41623-94	—	—
				75 mm	228-59907-93	228-41623-91	228-41624-91	—
				100 mm	228-59907-94	228-41623-92	228-41624-92	—
	Shim-pack XR-ODS	2.2 µm	35 MPa	150 mm	228-59907-95	228-41623-93	228-41624-93	—
				30 mm	—	228-41605-91	228-41606-91	228-41607-91
				50 mm	—	228-41605-92	228-41606-92	228-41607-92
				75 mm	—	228-41605-93	228-41606-93	228-41607-93
C8	Shim-pack XR-C8	2.2 µm	35 MPa	100 mm	—	228-41605-94	228-41606-94	228-41607-94
				30 mm	—	228-59901-91	228-59902-91	—
				50 mm	—	228-59901-92	228-59902-92	—
				75 mm	—	228-59901-93	228-59902-93	—
Phenyl	Shim-pack XR-Phenyl	2.2 µm	35 MPa	100 mm	—	228-59901-94	228-59902-94	—
				30 mm	—	228-59903-91	228-59904-91	—
				50 mm	—	228-59903-92	228-59904-92	—
				75 mm	—	228-59903-93	228-59904-93	—
SIL	Shim-pack XR-SIL	2.2 µm	20 MPa	100 mm	—	228-59903-94	228-59904-94	—
				50 mm	—	228-59905-91	228-59906-91	—
				75 mm	—	228-59905-92	228-59906-92	—
				100 mm	—	228-59905-93	228-59906-93	—



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