





for fast semi-preparative HPLC high throughput separations

YMC-Actus



Fast semi-preparative chromatography

Semi-preparative chromatography is the link between analytical HPLC and preparative LC. Even though the chromatographic systems used for semi-preparative LC do not reach the size of preparative LC systems, the objectives remain the same:

- · Purification and isolation of maximum sample quantity
- · Savings in time and costs.

With YMC-Actus time is on your side!

Technology

YMC, well known for its experience in DAC column technology, both in terms of hardware and packing procedures, has modified its robust DAC-column packing knowledge for semi-preparative column applications.

In combination with a new hardware design, YMC-Actus columns achieve an outstanding durability and efficiency.



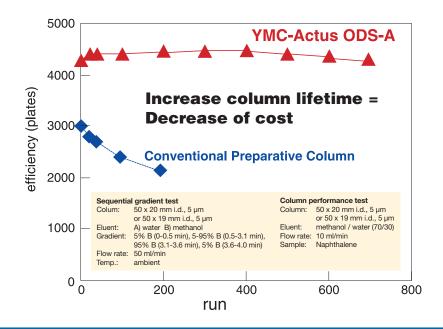
Durability

Rapid pressure changes under high-speed gradient conditions may lead to column degradation and loss of column performance.

With YMC-Actus, a new hardware and packing technology has been applied to these semi-preparative columns to provide a uniform packing density which results in a longer lifetime than conventional semi-preparative columns.

In order to determine the quality of the packing, the column performance was evaluated every 100 runs with a sequential high throughput gradient.

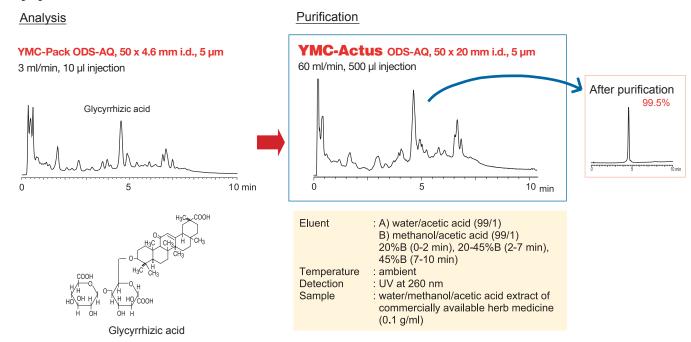
YMC-Actus columns offer outstanding efficiency without compromising resolution. Furthermore, YMC-Actus columns provide reliable results, even after exposure to severe, rapid gradient conditions and multiple injections.



YMC-Actus

Excellent durability and efficiency under fast gradient condition at high flow rate

Glycyrrhizic acid in herb medicine

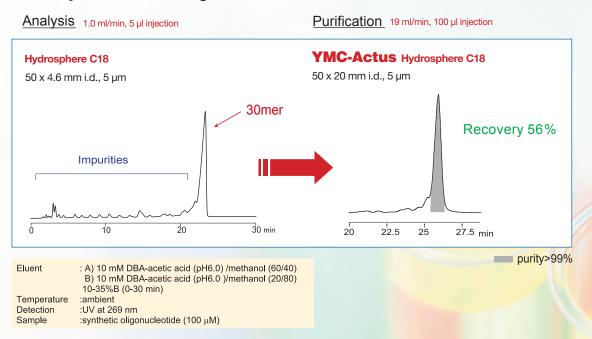


R&D Kits

To minimise the problems that the process of scale-up may introduce, YMC offers YMC R&D kits, which consist of one analytical column and one YMC-Actus column packed with exactly the same packing material from the same production lot. Therefore no further method development is needed, just a simple linear scale-up calculation.

Outstanding separation of highly polar compounds

Crude synthetic 30mer oligonucleotide



YMC-Actus

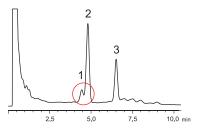
Excellent separations of compounds with similar structure

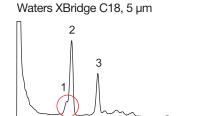
Capsaicinoids in red pepper

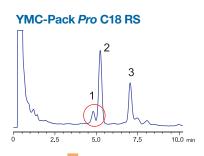
Analysis 50 x 4.6 mm i.d., 5 µm

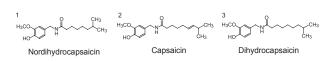
2.0 ml/min, 20 µl injection

Phenomenex Luna C18, 5 µm, 10 nm







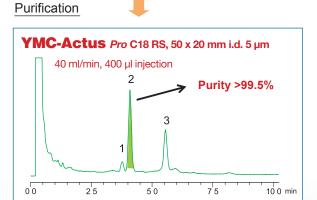


Eluent : A) methanol/water/TFA (50/50/0.1) B) methanol/TFA (100/0.1)

0-30%B (0-5 min), 30%B (5-10 min) : 25°C for 50 X 4.6 mm i. d. ambient for 50 X 20 mm i. d. Temperature

Detection UV at 280 nm

Sample methanol extract of a commercial red pepper (1 g/3 ml)



Ordering Information*

Packing material	Particle size (µm)	Pore size (nm)	Column size length x i.d. (mm)	Product number
Pro C18	5	12	50 x 20	AS12S050520WX
Hydrosphere C18	5	12	50 x 20	HS12S050520WX
Pro C18 RS	5	8	50 x 20	RS08S050520WX
ODS-A	5	12	50 x 20	AA12S050520WX
ODS-AQ	5	12	50 x 20	AQ12S050520WX
Pro C8	5	12	50 x 20	OC12S050520WX

^{*} Alternative selectivities, dimensions and particle sizes are available on request.

Your local distributor:

YMC Co., Ltd.

YMC Karasuma-Gojo Bld. 284 Daigo-cho, Karasuma Nisiiru Gojo-dori Shimogyo-ku, Kyoto 600-8106 Japan TEL. +81(0)75-342-4515, FAX +81(0)75-342-4550 www.ymc.co.jp

YMC America, Inc.

941 Marcon Boulevard Suite 301 Allentown, PA18109 USA TEL. +1-610-266-8650, FAX +1-610-266-8652 www.ymcamerica.com

YMC Europe GmbH

Schöttmannshof 19 D-46539 Dinslaken Germany TEL. +49(0)2064/427-0, FAX +49(0)2064/427-222 www.ymc.de