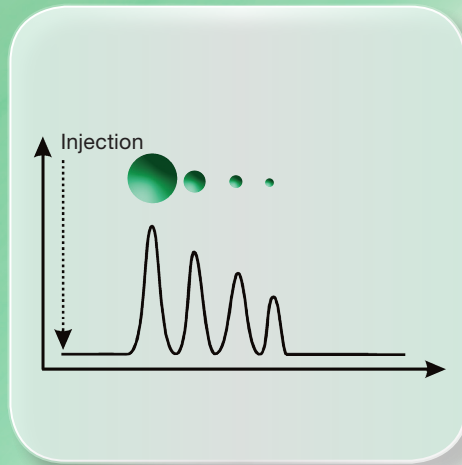
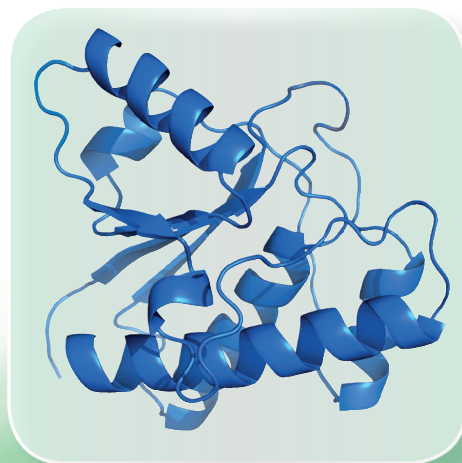
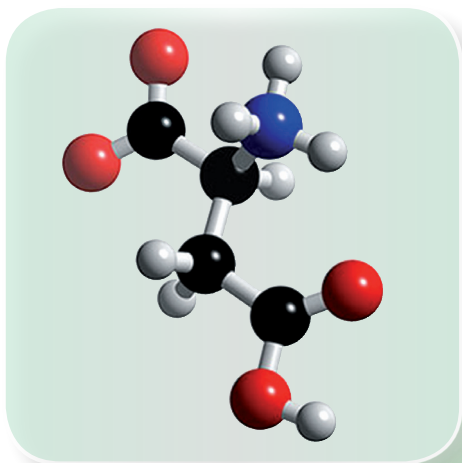




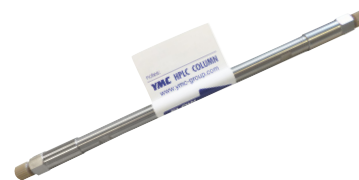
# UHPLC Size Exclusion Columns

YMC-Pack Diol 2  $\mu\text{m}$



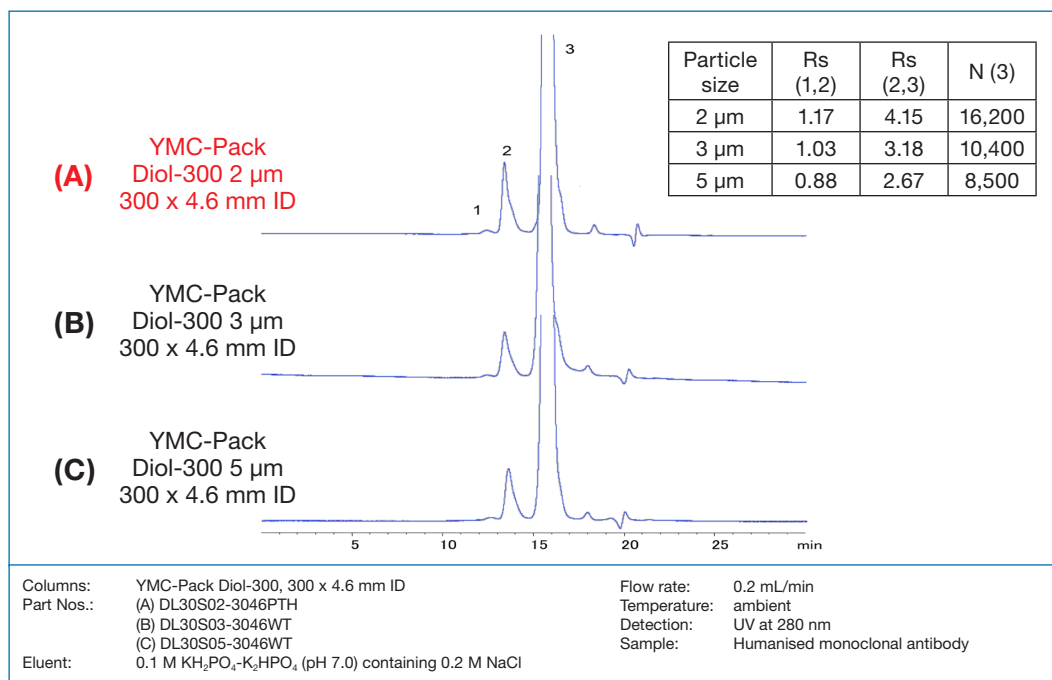
## YMC-Pack Diol UHPLC

- Faster analysis and increased throughput
- Excellent reproducibility
- Improved resolution
- Long-term stability
- Easy method transfer from HPLC to UHPLC



	YMC-Pack Diol-200	YMC-Pack Diol-300
Base particle	Silica	
Functional group	Dihydroxypropyl	
Particle size	2 $\mu\text{m}$	
Pore size	20 nm / 200 $\text{\AA}$	30 nm / 300 $\text{\AA}$
Recommended pH range	5.0-7.5	
Pressure limit	45 MPa (6,500 psi)	
Molecular weight range	5,000 – 300,000 Da	20,000 – 1,000,000 Da

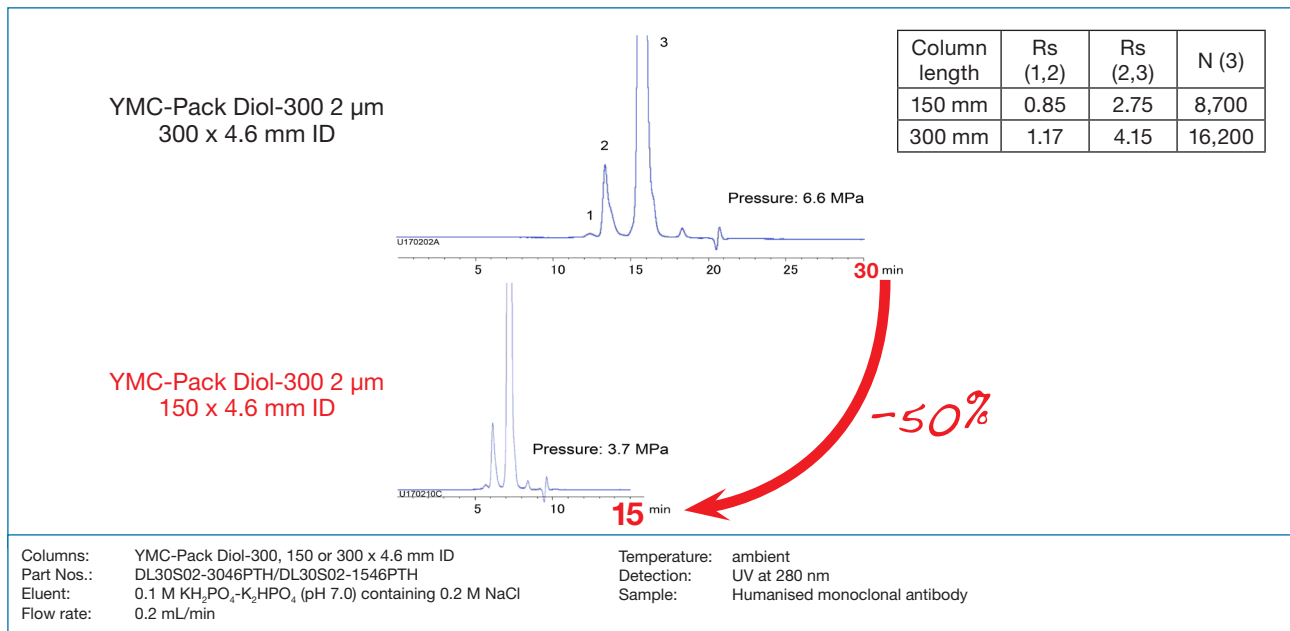
### Higher resolution for analysis of monoclonal antibodies



All three particle sizes show identical separation patterns for monoclonal antibody analysis. This allows easy method transfer between HPLC and UHPLC. A method developed using conventional HPLC can be directly transferred to UHPLC using a 2  $\mu\text{m}$  YMC-Pack Diol column.

YMC-Pack Diol UHPLC columns greatly improve the resolution between aggregates and the monomer peak. Furthermore, a shoulder peak which elutes after the monomer peak can partially be separated using the 2  $\mu\text{m}$  column.

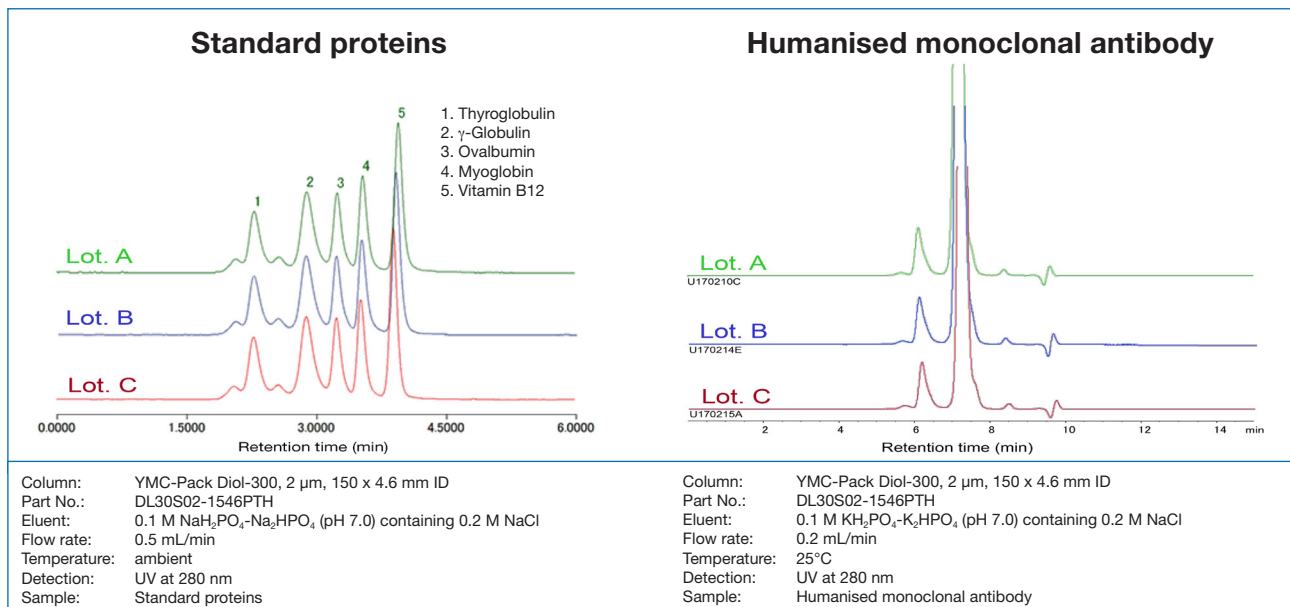
## High throughput analysis of monoclonal antibodies



By using a 150 mm length column, 50% shorter run time can be achieved with the same resolution as for a 5  $\mu$ m 300 mm length column. Doubling the throughput can be achieved.

The backpressure was only 6.6 MPa even for the 300 mm column. Therefore, YMC-Pack Diol 2  $\mu$ m columns can be used with both UHPLC and HPLC.

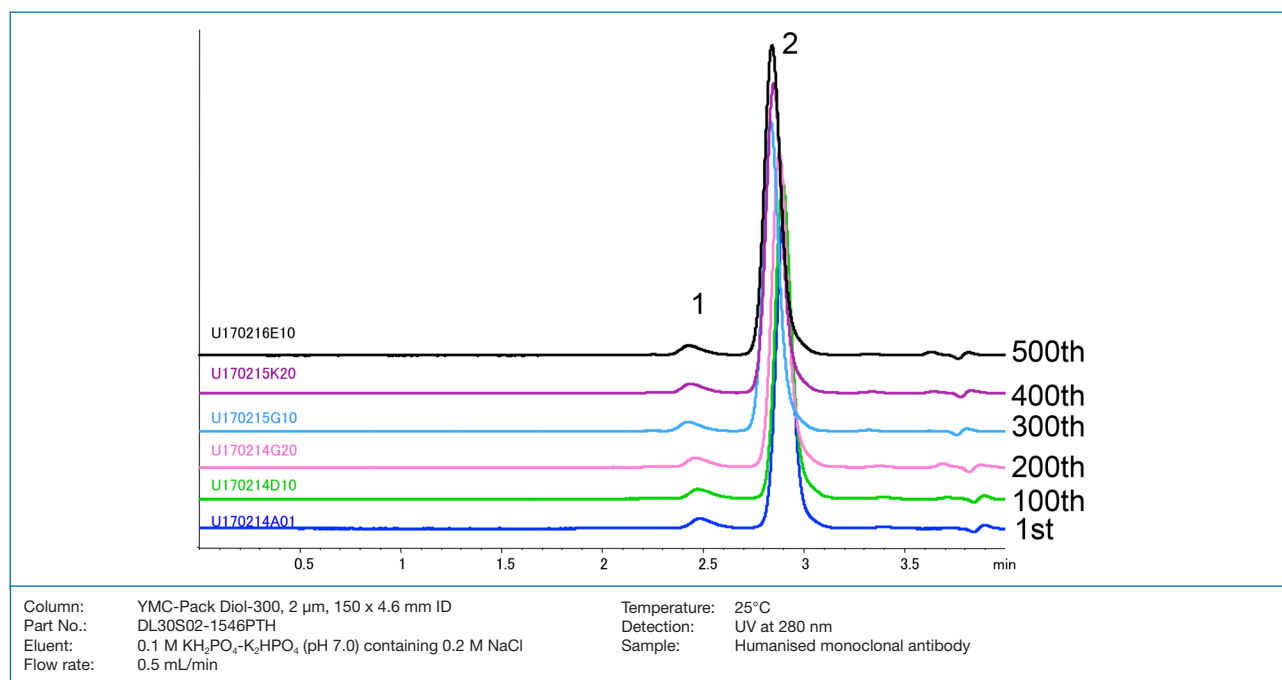
## Excellent batch to batch reproducibility



YMC-Pack Diol UHPLC columns have excellent batch-to-batch reproducibility. This makes YMC-Pack Diol 2  $\mu$ m columns the ideal choice for the quality control of bio-based drugs including monoclonal antibodies.

# YMC-Pack Diol UHPLC

## Long-term stability



YMC-Pack Diol UHPLC columns maintain their performance for more than 500 injections of sample during monoclonal antibody analysis. This ensures reproducible and reliable quality control of bio-based drugs including monoclonal antibodies.

## Ordering information

Phase	Particle size [ $\mu$ m]	Pore size [nm]	Column ID [mm]	Column dimension Length [mm]	Part number
YMC-Pack Diol-200	2	20	4.6	150	DL20S02-1546PTH
				300	DL20S02-3046PTH
YMC-Pack Diol-300	2	30	4.6	150	DL30S02-1546PTH
				300	DL30S02-3046PTH

Your local distributor:



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