

NEW JAIGEL-GPC Column – the HR series

JAI Japan Analytical Industry

High Flow Rate

High Throughput

High Resolution

Solvent Change

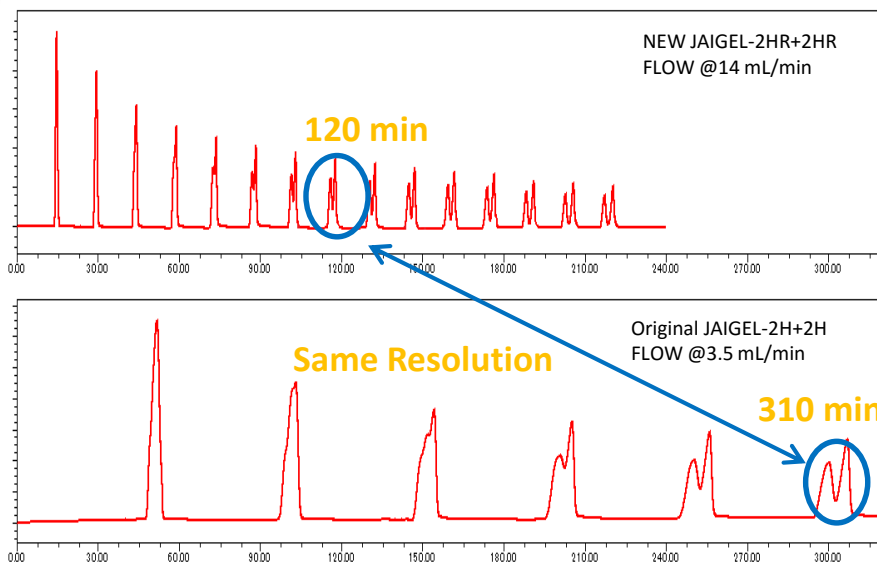
JAI has now launched the new JAIGEL-HR series.

- ✓ 4X higher flow rate at 15 mL/min when comparing to the original JAIGEL-H at 3.5 mL/min
- ✓ Higher throughput and increased sample amount per injection with JAIGEL-HR
- ✓ Theoretical plate is now guaranteed to be greater than 28,000, compared to the original JAIGEL-H at 13,000
- ✓ Can use various organic solvents interchangeably

High Flow Rate

The original JAIGEL-H series has used flow rate at 3.5 mL/min and the new JAIGEL-HR series has X4 faster flow rate at 15 mL/min maximum.

With higher resolution of the HR columns and faster recycle performance, you can greatly save time.



Column : JAIGEL-2HR+2HR

vs JAIGEL-2H+2H

Flow rate : 14 mL/min vs 3.5 mL/min

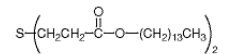
Eluent: Chloroform

Sample: 100 mg/mL DMTDP+DLTDP

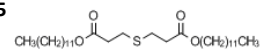
Injection Volume : 200 mg / 2 mL

Detector : RI-700 II NEXT

DMTDP : Ditetradecyl 3,3'-Thiodipropionate
MW:571



DLTDP : Didodecyl 3,3'-Thiodipropionate
MW:515



New JAIGEL-HR only takes 120 min to achieve the same separation while original JAIGEL-H took 310 min

High Throughput

The new JAIGEL-HR can achieve the same resolution under the same time, but with 2 times more sample amount than original JAIGEL-H.

Larger Scale Separation

Column : JAIGEL-2HR+2HR
vs JAIGEL-1H+2H

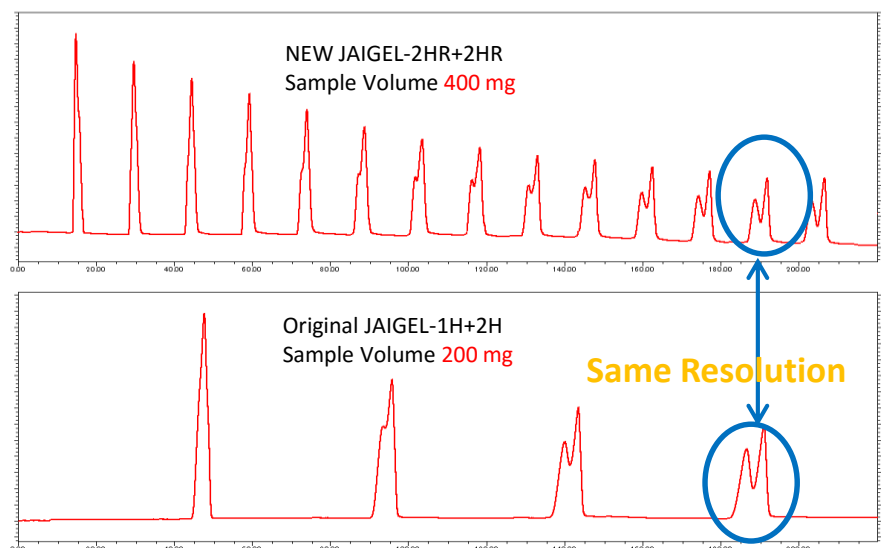
Flow rate : 14ml/min vs 3.5ml/min

Eluent: Chloroform

Sample: 100 mg/mL DMTDP+DLTDP

Injection Volume
400 mg / 4 mL to JAIGEL-2HR+2HR
200 mg / 2 mL to JAIGEL-1H+2H

Detector : RI-700 II NEXT



Twice more sample load, yet same separation and time

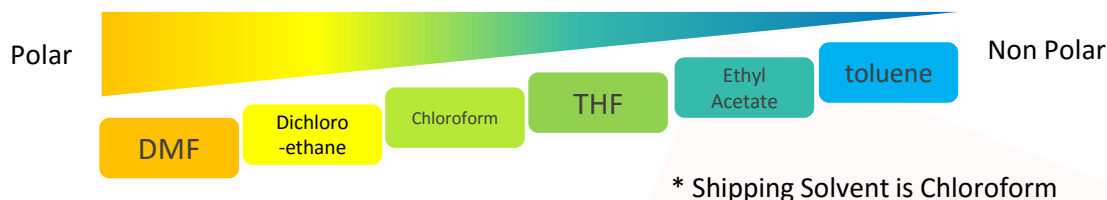
High Resolution



Theoretical plate is now guaranteed to be greater than 28,000, twice more powerful and effective in separation, when comparing to the original JAIGEL-H at 13,000.

Solvent Change

Wide range of solvents can be used interchangeably with the new JAIGEL-HR, depends on the solubility of your compounds.



High Flow and High Resolution GPC Column



JAIGEL-HR series

Column name	Exclusion limit MW (PS)	Theoretical Plate	ID x Length
JAIGEL-2HR	5,000	28,000	20 x 600mm
JAIGEL-2.5HR	20,000	28,000	20 x 600mm

Pre Column for JAIGEL-HR

Column name	ID x Length
JAIGEL-HR-P	8 x 40mm

Please have pre column before main columns to protect

Line Filter Cartridge Holder

Item name	ID X Length
HR Line Filter Cartridge	8 x 20mm

Line Filter Spare

Item name	Number
HR Line Filter	5 pcs

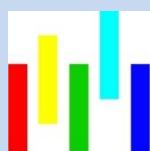
For Inquiry call us at

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Please Visit our Web Site

<http://www.columnex.com>

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