VertiSep™ OA HPLC Columns

- **Polymeric-based column for organic acids**
- **pH stability 0-14**
- **Excellent efficiency and resolution**
- **Reproducibility lot-to-lot and column-to-column**

VertiSep™ OA columns contain 8% cross-linked spherical Polystyrene Divinylbenzene (PS-DVB) Copolymer with hydrogen ionic form. Available in 8µm particle size.

VertiSep™ OA columns are useful for analysis of a wide range of organic acids (such as acetate, formate, oxalate and etc.) alone or in combination with carbohydrates, alcohols, fatty acids, and neutral compounds by ion exclusion. Water or dilute acids can be used as mobile phase. Acids are eluted usually in order of acid strength or in order of increasing pK_a values. Retention times of the organic acids may be controlled through adjustment of the mobile phase pH.

For rapid separation of alcohols like methanol, ethanol, propanol, butanol and glycerol in less than 6 minutes, dimension of 7.8 x 100mm is recommended.

Typical applications include biological fluids, foods, industrial chemicals and fermentation process.

VertiSep™ OA are manufactured by statistic process control of silica synthesis, bonding and column packing. The reproducible column packing method control provides exceptional efficiency, symmetry and reproducible capacity factor.

Ordering Information

Phase	Particle Size (µm)	I.D. Length (mm)	QTY	Part No.
VertiSep™ OA				
OA	8	4.6 x 250	1	03JL-E551
	8	7.8 x 100	1	03JL-G351
	8	7.8 x 300	1	03JL-G951

Ordering Information

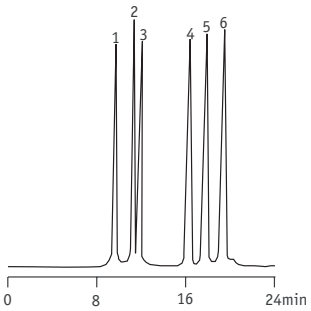
Phase	Particle Size (µm)	I.D. Length (mm)	QTY	Part No.
VertiSep™ OA Guard Catridges*				
OA	8	4.6 x 10	2	03JL-E153

*Guard holder required

Ordering Information

Description	QTY	Part No.
Guard Holder with Coupler		
For column I.D. 2.1-7.8 mm	1	0300-0001

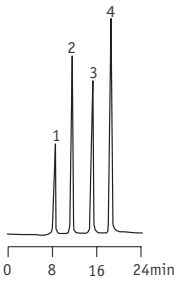
Organic Acids



1. Oxalic
2. Citric
3. Tartaric
4. Succinic
5. Formic
6. Acetic

Column:	VertiSep™ OA
Mobile Phase:	0.005N Sulfuric Acid
Flow Rate:	0.5mL/min
Temp:	55°C
Detection:	UV

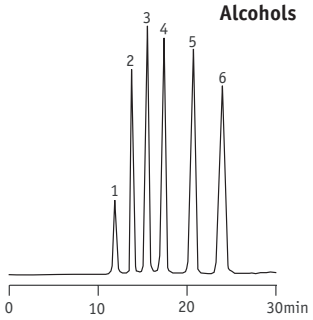
Carboxylic Acids



1. Acetylene Carboxyric Acid
2. Maleic Acid
3. Succinic Acid
4. Fumaric Acid

Column:	VertiSep™ OA
Mobile Phase:	Water + 0.5% Trifluroacetic Acid
Flow Rate:	1.0mL/min
Temp:	40°C
Detection:	RI

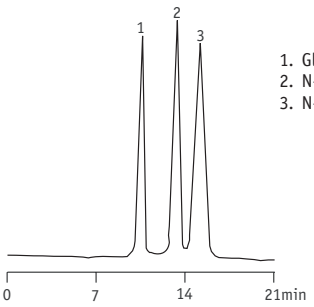
Alcohols



1. Methanol
2. Ethanol
3. Isopropanol
4. *n*-Propanol
5. *sec*-Butanol
6. *n*-Butanol

Column:	VertiSep™ OA
Mobile Phase:	Water
Flow Rate:	0.6mL/min
Temp:	60°C
Detection:	RI

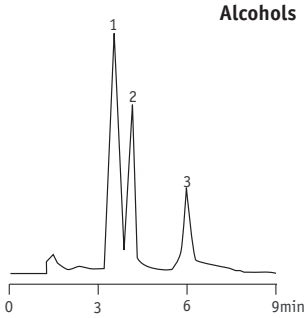
Amino Sugars



1. Glucose
2. N-Acetylglucose
3. N-Acetylgalactosamine

Column:	VertiSep™ OA
Mobile Phase:	1% Phosphoric Acid
Flow Rate:	0.6mL/min
Temp:	Ambient
Detection:	RI

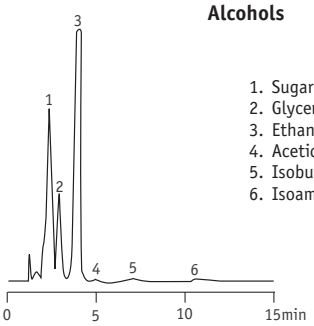
Alcohols



1. Glycerol
2. Acetic Acid
3. Ethanol

Column:	VertiSep™ OA
Mobile Phase:	0.003N Sulfuric Acid
Flow Rate:	0.7mL/min
Temp:	50°C
Detection:	RI

Alcohols



1. Sugars and Non-Volatile Acids
2. Glycerol
3. Ethanol
4. Acetic Acid
5. Isobutanol
6. Isoamyl Alcohol

Column:	VertiSep™ OA
Mobile Phase:	0.003N Sulfuric Acid
Flow Rate:	0.7mL/min
Temp:	50°C
Detection:	RI