VertiSep™ SUGAR HPLC Columns

- Polymer based column
- Wide pH stability
- Excellent efficiency and resolution
- Reproducibility lot-to-lot and column-to-column
- Use only water as mobile phase



VertiSep™ SUGAR CMP columns contain 8% cross-linked spherical Polystyrene Divinylbenzene (PS-DVB) Copolymer with calcium ionic form. Available in 9μm particle size. VertiSep™ SUGAR CMP columns are useful for analysis of mono-, disaccharides and sugar alcohols by only water as the mobile phase. The dimension of 4.0x250 mm is recommended for USP L-19 for separation of sugar alcohols such as sorbitol and manitol. Typical applications include fruit juices, soft drinks, dairy products, vegetables and medical source.

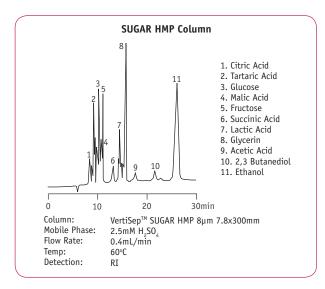
VertiSep™ SUGAR SOP columns contain 8% cross-linked spherical Polystyrene Divinylbenzen (PS-DVB) Copolymer with silver ionic form. Available in 10 and 20µm particle size. They provide rapid oligosaccharides separation. Particle size of 10µm can resolve saccharides as large as DP-7 and the 20µm can resolve saccharides as large as DP-12. VertiSep™ SUGAR SOP columns are also useful in the carbohydrate industry to determine hydrolyzates in the conversion of corn syrup to fermentable carbohydrates.

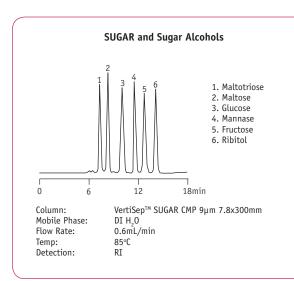
VertiSep™ SUGAR LMP columns contain 8% cross-linked spherical Polystyrene Divinylbenzene (PS-DVB) Copolymer with lead ionic form. Available in 8µm particle size. They provide highest resolution and selectivity for monosccharides and disaccharides. VertiSep™ SUGAR LMP columns also can resolve pentoses and hexoses found in cellulose products especially glucose, xylose, galactose, cellobiose, arabinose and mannose which are not completely resolved on the calcium form. In addition, VertiSep™ SUGAR LMP columns can resolve sucrose and lactose well if these two sugars are present in excess in some samples. Typical applications include dairy and meat industries, cereals and plant fibers.

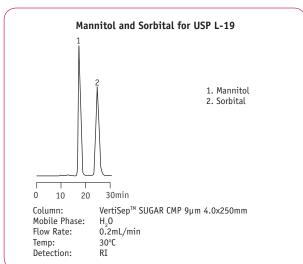
VertiSep™ SUGAR HMP columns contain 8% cross-linked spherical Polystyrene Divinylbenzene (PS-DVB) Copolymer with hydrogen ionic form. Available in 8µm particle size. They are useful for analysis of samples containing monosaccharides in combination with organic acids, fatty acids and alcohols by using only a dilute sulfuric acid as mobile phase at ambient temperatures. Typical applications include wine industries, dairy industries, bio-reactions and medical science.

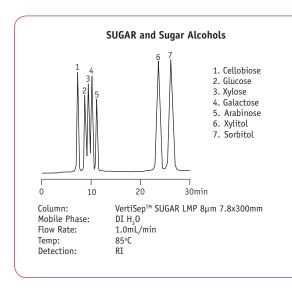
 $\label{lem:VertiSep} VertiSep^{\text{IM}} SUGAR \ are \ manufactured by statistic process control of silica synthesis, bonding and column packing. The reproducible column packing method control provides exceptional efficiency, symmetry and reproducible capacity factor.$

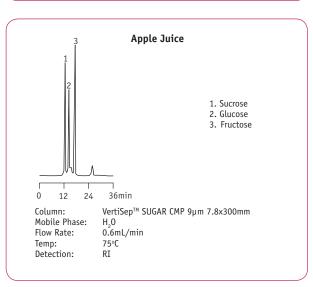
Specifications					
			Particle	Typical	Max
		Cross Linking	Size	Mobile	Temp
Packing	Form	(%)	(µm)	Phase	(°C)
VertiSep™ SUGAR CMP	calcium	8	9	water	85
VertiSep™ SUGAR SOP	silver	8	10,20	water	85
VertiSep™ SUGAR LMP	lead	8	8	water	85
VertiSep™ SUGAR HMP	hydrogen	8	8	0.005 N Sulfuric acid	85

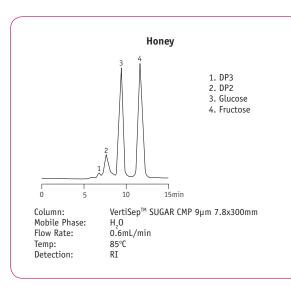


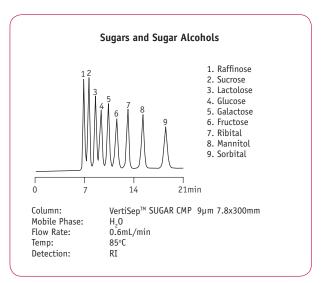


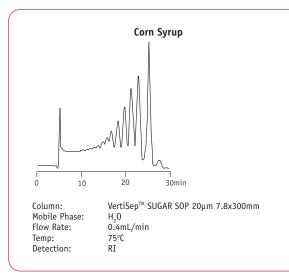


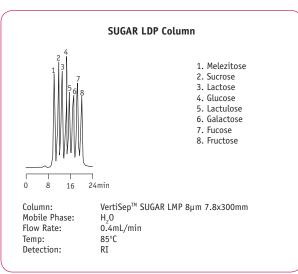


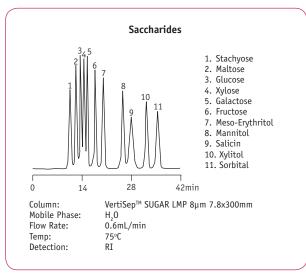


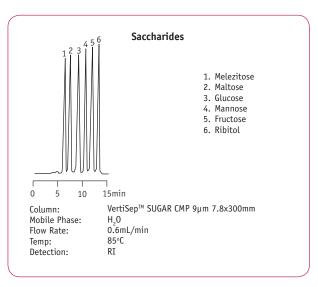












Ordering Information					
	Particle	I.D.			
	Size	Length			
Phase	(µm)	(mm)	QTY	Part No.	
VertiSep™ SUGAR					
CMP	9	4.0 x 250	1	03IJ-D561	
	9	7.8 x 100	1	03IJ-G361	
	9	7.8 x 300	1	03IJ-G961	
SOP	10	7.8 x 300	1	03IM-G931	
	20	7.8 x 300	1	03IM-G971	
LMP	8	7.8 x 300	1	03IK-G951	
HMP	8	4.6 x 250	1	03IL-E551	
	8	7.8 x 300	1	03IL-G951	

Ordering Information				
	Particle	I.D.		
	Size	Length		
Phase	(µm)	(mm)	QTY	Part No.
VertiSep™ SUGAR Guard Catridges*				
CMP	9	4.6 x 10	2	03IJ-E153
SOP	9	4.6 x 10	2	03IM-E153
LMP	8	4.6 x 10	2	03IK-E153
HMP	8	4.6 x 10	2	03IL-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

