


Specifications and Operating Recommendations


	RCM-Monosaccharide	RSO-Oligosaccharide	RNO-Oligosaccharide	RNM-Carbohydrate	RAM-Carbohydrate
Part Number	00H-0130-K0	00P-0133-N0	00P-0137-N0	00H-0136-K0	00H-0131-K0
Ionic Form	Calcium	Silver	Sodium	Sodium	Silver
Standard Dimensions	300 x 7.8 mm	200 x 10 mm	200 x 10 mm	300 x 7.8 mm	300 x 7.8 mm
Matrix	Sulfonated Styrene-divinylbenzene				
Cross Linking	8 %	4 %	4 %	8 %	8 %
Particle Size	8 µm	12 µm	12 µm	8 µm	8 µm
Min. Efficiency (p/m) based on last peak	35,000	N/A	N/A	30,000	35,000
Typical Pressure (psi @ Max Flow Rate)	400	200	200	400	400
Max. Pressure (psi @ Max Flow Rate)	1,000	300	300	1,000	1,000
Max. Flow Rate (mL/min)	1.0 (see pressure)	0.3	0.3	1.0	1.0
Max. Temperature (°C)	85	85	85	85	85
Typical Mobile Phase	Water	Water	Water	Water	Water
pH Range	Neutral	Neutral	Neutral	Neutral	Neutral
Guard Column Part No.	03B-0130-K0	03R-0133-N0	03R-0137-N0	03B-0136-K0	03B-0131-K0

Cleaning, Regeneration and Storage

Organic Modifiers (Max)	10 % Methanol, IPA, EtOH, Acetonitrile				
Inorganic Modifiers	5 % CaSO ₄ , Ca(NO ₃) ₂ , CaCl ₂	5 % Silver Nitrate	5 % Sodium Salts	5 % Sodium Salts	2 % Silver Nitrate
Avoid 	Acids, Bases, Non-Calcium Salts/ Metal Ions, >10 % Organic	Acids, Bases, Non-Silver Salts/ Metal Ions, >5 % Organic	Acids, Bases, Non-Sodium Salts/ Metal Ions, >5 % Organic	Acids, Bases, Non-Sodium Salts/ Metal Ions, >10 % Organic	Acids, Bases, Non-Silver Salts/ Metal Ions, >10 % Organic
Cleaning Solvent	100 % Water	100 % Water	100 % Water	100 % Water	100 % Water
Flow Rate(mL/min)	0.6	0.2	0.2	0.4	0.4
Temperature (°C)	85	75	75	75	75
Duration (hrs)	12	12	12	12	12
Regeneration Solvent	0.1 M Ca(NO ₃) ₂	0.1 M AgNO ₃	0.1 M NaNO ₃	0.1 M NaNO ₃	0.1 M AgNO ₃
Flow Rate (mL/min)	0.2	0.1	0.2	0.2	0.2
Temperature (°C)	85	85	85	85	85
Duration (hrs)	4-16	4-16	4-16	4-16	4-16
Ship/Storage Solvent	Water	Water	Water	Water	Water

	RPM-Monosaccharide	RHM-Monosaccharide	ROA-Organic Acid	RFQ-Fast Acid	RCU-Sugar Alcohols
Part Number	00H-0135-K0	00H-0132-K0	00H-0138-K0	00D-0223-K0	00G-0130-D0
Ionic Form	Lead	Hydrogen	Hydrogen	Hydrogen	Calcium
Standard Dimensions	300 x 7.8 mm	300 x 7.8 mm	300 x 7.8 mm	100 x 7.8 mm	250 x 4.0 mm
Matrix	Sulfonated Styrene-divinylbenzene				
Cross Linking	8 %	8 %	8 %	8 %	8 %
Particle Size	8 µm	8 µm	8 µm	8 µm	8 µm
Min. Efficiency (p/m) based on last peak	35,000	35,000	50,000 (Acetic Acid)	30,000	12,000
Typical Pressure (psi @ Max Flow Rate)	400	400	400	400	400
Max. Pressure (psi @ Max Flow Rate)	1,000	1,000	1,000	1,000	1,000
Max. Flow Rate (mL/min)	1.0	1.0	1.0	1.0	0.5
Max. Temperature (°C)	85	85	85	85	85
Typical Mobile Phase	Water	Water	0.005 N H ₂ SO ₄	0.005 N H ₂ SO ₄	Water
pH Range	Neutral	1-8	1-8	1-8	Neutral
Guard Column Part No.	03B-0135-K0	03B-0132-K0	03B-0138-K0	03B-0223-K0	03A-0130-D0

Cleaning, Regeneration and Storage

Organic Modifiers (Max)	10 % Methanol, IPA, EtOH, Acetonitrile				
Inorganic Modifiers	5 % Lead Nitrate	5 % HNO ₃ , H ₃ PO ₄	5 % HNO ₃ , H ₃ PO ₄	5 % HNO ₃ , H ₃ PO ₄	5 % CaSO ₄ , Ca(NO ₃) ₂ , CaCl ₂
Avoid 	Acids, Bases, Non-Lead Salts/ Metal Ions, >10 % Organic	Acids, Bases, Salts/ Metal Ions, >10 % Organic	Acids, Bases, Salts, Metal Ions, pH > 3, >10 % Organic	Acids, Bases, Salts, Metal Ions, pH > 3, >10 % Organic	Acids, Bases, Non-Calcium Salts, or Metal Ions, >10 % Organic
Cleaning Solvent	100 % Water	100 % Water	100 % Water	100 % Water	100 % Water
Flow Rate(mL/min)	0.6	0.6	0.6	0.6	0.2
Temperature (°C)	85	85	85	85	85
Duration (hrs)	12	12	12	12	12
Regeneration Solvent	0.1 M Pb(NO ₃) ₂	0.025 M H ₂ SO ₄	0.025 M H ₂ SO ₄	0.025 M H ₂ SO ₄	0.1 M Ca(NO ₃) ₂
Flow Rate (mL/min)	0.2	0.2	0.2	0.2	0.2
Temperature (°C)	85	85	85	85	85
Duration (hrs)	4-16	4-16	4-16	4-16	4-16
Ship/Storage Solvent	Water	Water	0.005 N H ₂ SO ₄	0.005 N H ₂ SO ₄	Water