

# AppliChrom SugarSep-H I / -H II

## AppliChrom SugarSep-H

Analysis of sugars, sugar alcohols, alcohols and organic acids.

The chromatography phases

AppliChrom SugarSep-H I and AppliChrom SugarSep-H II are strong cation exchange resins consisting of a sulfonated, 8% cross-linked styrene-divinylbenzene copolymer in the hydrogen phase, 10µm



supplied and supported by:



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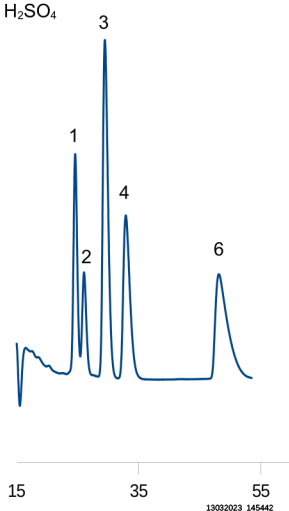
Column : AppliChrom SugarSep-H II

300x8mm ID  
P/N SASHI103008

Eluent H<sub>2</sub>O, 0.01M H<sub>2</sub>SO<sub>4</sub>  
Flow rate 0.4mL/min  
Temperature 40°C  
Detection RI

Analyte (20µl)

1. Formic acid
2. Acetic acid
3. Propionic acid
4. Isobutyric acid
5. Valeric acid



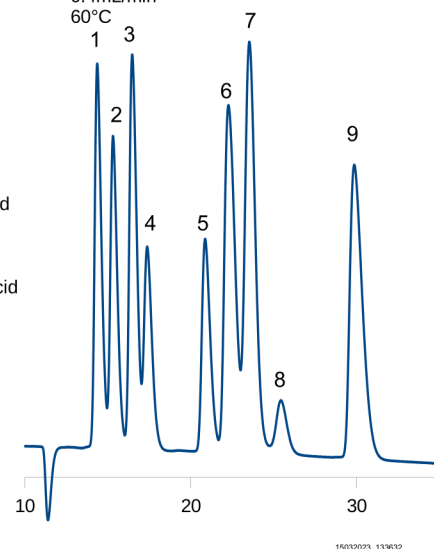
Column : AppliChrom SugarSep-H I

300x8mm ID  
P/N SASHI103008

Eluent H<sub>2</sub>O, 0.01M H<sub>2</sub>SO<sub>4</sub>  
Flow rate 0.4mL/min  
Temperature 60°C  
Detection RI

Analyte (20µl)

1. Lactose
2. Citric acid
3. Glucose
4. Galactose
5. Succinic acid
6. Lactic acid
7. Formic acid
8. Acetic acid
9. Propionic acid



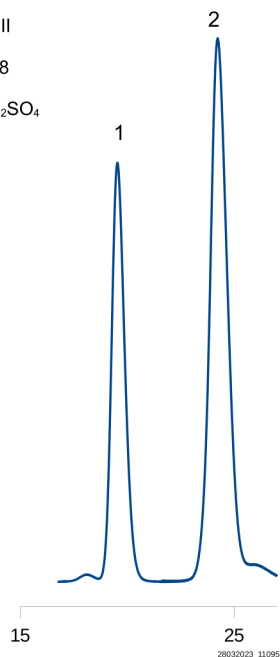
Column : AppliChrom SugarSep-H II

300x8mm ID  
P/N SASHI103008

Eluent H<sub>2</sub>O, 0.01M H<sub>2</sub>SO<sub>4</sub>  
Flow rate 0.4mL/min  
Temperature 40°C  
Detection RI

Analyte (20µl)

1. Glucose
2. Lactic acid



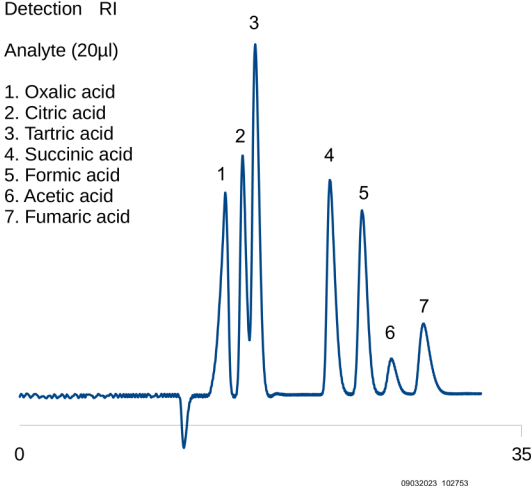
Column : AppliChrom SugarSep-H I

300x8mm ID  
P/N SASHI103008

Eluent H<sub>2</sub>O, 0.01M H<sub>2</sub>SO<sub>4</sub>  
Flow rate 0.4mL/min  
Temperature 40°C  
Detection RI

Analyte (20µl)

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



# AppliChrom SugarSep-H I / II Columns - Retention Times

Conditions  
Column Dimension: 300 x 8mm, Mobile Phase: H<sub>2</sub>O / 0.01m H<sub>2</sub>SO<sub>4</sub>, Flow Rate: 0.4ml/min, Temperature: 40°C, Detection: RI

AppliChrom SugarSep-H I / II Chart RT (min) vs Analyte				AppliChrom SugarSep-H I / II Chart Analyte (min) vs RT		
Analyte	SugarSep-H I	Analyte	SugarSep-H II	Analyte	SugarSep-H I	SugarSep-H II
Melezitose	12,80	Maltotriose	17,02	1-Butanol	62,41	53,63
Raffinose	12,80	Raffinose	17,09	1-Propanol	44,06	40,35
Maltotriose	12,96	Ribitol	17,19	2-Desoxy-D-Glucose	18,21	20,15
Cellobiose	13,78	Oxalic Acid	17,20	Acetic Acid	26,11	26,48
Melibiose	13,91	Cellobiose	17,49	Allulose	18,27	21,18
D-Maltose	14,15	Melibiose	17,61	Arabinose	19,47	21,31
Sucrose	14,18	Trehalose	17,77	Arabit	19,00	21,37
Trehalose	14,21	Sucrose	17,87	Cellobiose	13,78	17,49
Oxalic Acid	14,29	D-Maltose	18,13	Citric Acid	15,72	19,05
Lactose	14,77	Lactose	18,20	D-(-)-Fructose	18,06	20,60
Maltitol	14,77	Maltitol	18,31	D-(+)-Galactose	17,76	20,08
Citric Acid	15,72	Citric Acid	19,05	D-(+)-Glucose	16,82	19,55
D-(+)-Glucose	16,82	Inosit	19,54	D-Maltose	14,15	18,13
Tartaric Acid	17,00	D-(+)-Glucose	19,55	Dulcit	18,12	20,90
Inosit	17,04	Mannose	19,82	Erythritol	20,14	21,94
Mannose	17,13	Melezitose	19,82	Ethanol	34,42	33,10
Xylose	17,34	Tartaric Acid	19,82	Formic Acid	23,83	24,79
D-(+)-Galactose	17,76	Xylose	19,86	Fucose	19,84	21,21
Mannitol	17,80	D-(+)-Galactose	20,08	Fumaric Acid	28,66	28,30
Malic Acid	18,04	2-Desoxy-D-Glucose	20,15	Glycerin	22,41	24,11
D-(-)-Fructose	18,06	Rhamnose	20,26	Inosit	17,04	19,54
Sorbitol	18,10	D-(-)-Fructose	20,60	Iso-Butyric Acid	36,08	33,29
Dulcit	18,12	Malic Acid	20,74	Lactic Acid	22,51	24,24
2-Desoxy-D-Glucose	18,21	Dulcit	20,90	Lactose	14,77	18,20
Rhamnose	18,22	Sorbitol	20,96	Malic Acid	18,04	20,74
Allulose	18,27	Allulose	21,18	Maltitol	14,77	18,31
Ribitol	18,37	Fucose	21,21	Maltotriose	12,96	17,02
Arabit	19,00	Arabinose	21,31	Mannitol	17,80	23,82
Ribose	19,11	Arabit	21,37	Mannose	17,13	19,82
Xylitol	19,43	Erythritol	21,94	Melezitose	12,80	19,82
Arabinose	19,47	Ribose	21,95	Melibiose	13,91	17,61
Fucose	19,84	Xylitol	22,18	Methanol	30,22	29,91
Erythritol	20,14	Succinic Acid	23,00	Oxalic Acid	14,29	17,20
Succinic Acid	21,79	Sucralose	23,65	Propionic Acid	31,04	29,76
Glycerin	22,41	Shikimic Acid	23,67	Raffinose	12,80	17,09
Lactic Acid	22,51	Mannitol	23,82	Rhamnose	18,22	20,26
Shikimic Acid	22,92	Glycerin	24,11	Ribitol	18,37	17,19
Formic Acid	23,83	Lactic Acid	24,24	Ribose	19,11	21,95
Sucralose	24,88	Formic Acid	24,79	Shikimic Acid	22,92	23,67
Acetic Acid	26,11	Acetic Acid	26,48	Sorbitol	18,10	20,96
Fumaric Acid	28,66	Fumaric Acid	28,30	Succinic Acid	21,79	23,00
Methanol	30,22	Propionic Acid	29,76	Sucralose	24,88	23,65
Propionic Acid	31,04	Methanol	29,91	Sucrose	14,18	17,87
Ethanol	34,42	Ethanol	33,10	Tartaric Acid	17,00	19,82
Iso-Butyric Acid	36,08	Iso-Butyric Acid	33,29	Trehalose	14,21	17,77
1-Propanol	44,06	1-Propanol	40,35	Valeric Acid	59,14	48,16
Valeric Acid	59,14	Valeric Acid	48,16	Xylitol	19,43	22,18
1-Butanol	62,41	1-Butanol	53,63	Xylose	17,34	19,86

...to be continued