

Agilent GPC/SEC Software Sample GPC Analysis Report



Agilent Technologies

smanh 2000

Workspace Details

Workspace name Poly lactide
Location C:\ProgramData\Agilent Technologies\GPC\Workspaces\Poly lactide\
Comments
Created by Administrator at 13:44:31 on 15 June 2015

Sample Properties

Sample name smanh 2000
File name ICF_08_03_2018-0006.sample
Collected by GPC at 16:01:34 on 08 March 2018
Instrument name Instrument 1

Column Calibration Details

Name GPC_Calib
Created by Administrator at 15:53:55 on 18 June 2015
Last modified by GPC at 09:48:47 on 24 August 2016
Comments GPC Column Calibration created Thursday, June 18, 2015 by Administrator
GPC Column Calibration amended Thursday, June 18, 2015 by Administrator
GPC Column Calibration amended Thursday, June 18, 2015 by Administrator

Calibration Type	Narrow Standard	Curve Fit Used	3
Calibration Curve	$y = -0.0005918x^3 + 0.0308x^2 - 0.8981x + 12.44$		
High Limit MW RT (mins)	10.68333	Low Limit MW RT (mins)	19.65000
High Limit MW (g/mol)	465600	Low Limit MW (g/mol)	162
Flow Rate Marker Name		Flow Marker RT (mins)	0.00000
K (Input) ((10e-5) dL/g)	14.100		
Alpha (Input)	0.700		
Residual Sum Of Squares	0.0060349	Corrected Sum Of Squares	13.8054
Coeff. Of Determination	0.999563	Standard Y Error Estimate	0.0274657
Linear Correlation Coeff	-0.999414		

Column Calibration Data Points

Point	Peak Max RT (mins)	MW	Log MW	Point in Use?	Percent Error
1	10.68333	465600	5.67	Yes	7.18
2	11.33333	217900	5.34	Yes	-3.41
3	11.93333	113300	5.05	Yes	-11.05
4	12.98333	47190	4.67	Yes	0.18
5	13.51667	29150	4.46	Yes	0.34
6	14.46667	13270	4.12	Yes	5.45
7	15.23333	6940	3.84	Yes	6.73
8	16.20000	2780	3.44	Yes	-2.51
9	17.06667	1390	3.14	Yes	0.98
10	17.56667	860	2.93	Yes	-5.28
11	18.58333	370	2.57	Yes	-4.18
12	19.65000	162	2.21	Yes	3.96

Analyst:

Date:

Checked By:

Date:

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Processing Parameters

Method Last modified by Administrator at 13:44:30 on 15 June 2015
Using Flow Rate Correction No
Mark-Houwink K ((10e-5) dL/g) 14.100
Mark-Houwink Alpha 0.700
Concentration Detector Used in Analysis RI
Injection volume (µL) 100.00
Flow rate (mL/min) 1.00

MW Ranges Method

Calculate MW Ranges No

Percentage Fractions Method

Calculate Percentage Fractions No

Results

Analysed by GPC at 09:54:33 on 12 March 2018
Comments

Molecular Weight Averages

Peak	Mp (g/mol)	Mn (g/mol)	Mw (g/mol)	Mz (g/mol)	Mz+1 (g/mol)	Mv (g/mol)	PD
Peak 1	6114	4000	7185	11618	16524	10934	1.796
Peak 2	483	490	498	506	514	505	1.016
Peak 3	349	335	338	341	345	341	1.009

Peak Information

	Start (mins)	End (mins)
Baseline region 1	3.50000	10.61667
Peak 1	13.18333	17.68333
Peak 2	17.96667	18.56667
Peak 3	18.56667	19.10000

Analyst:

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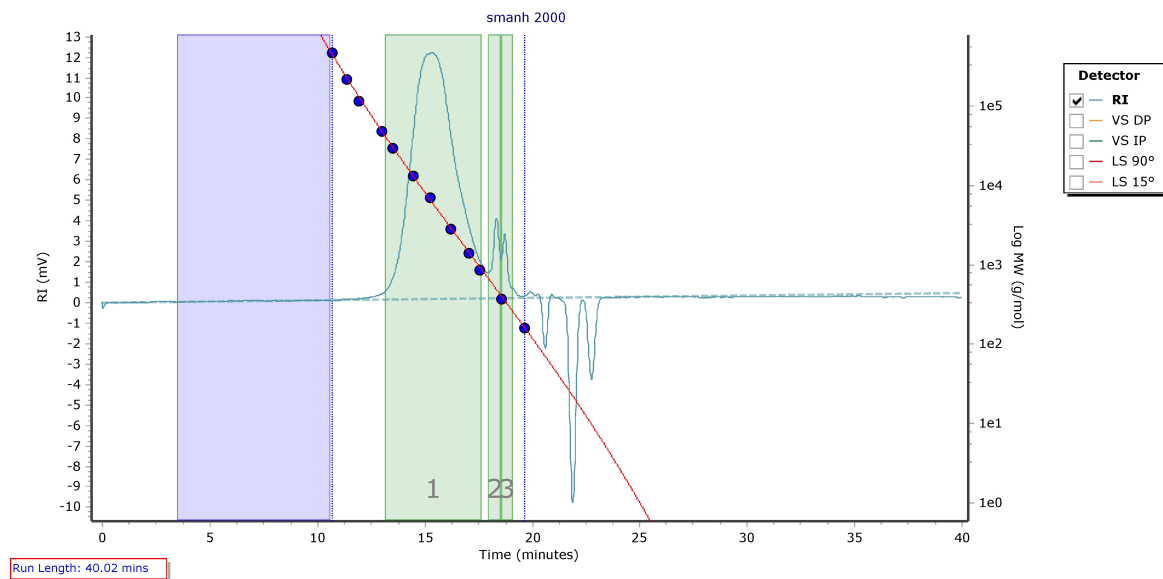


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Peak Trace Information

Peak	Trace	Peak Max RT (mins)	Peak Area (mV.s)	Peak Height (mV)
Peak 1	RI	15.30000	1746.064	12.032
Peak 1	VS DP	14.80000	1146.783	8.959
Peak 1	VS IP	14.30000	37.373	0.532
Peak 1	LS 90°	14.71667	514.853	4.465
Peak 1	LS 15°	14.70000	223.225	1.893
Peak 2	RI	18.33333	88.082	3.916
Peak 2	VS DP	18.28333	46.199	2.197
Peak 2	VS IP	18.40000	2.322	0.389
Peak 2	LS 90°	18.51667	0.141	-0.017
Peak 2	LS 15°	18.30000	3.943	0.162
Peak 3	RI	18.70000	53.891	3.152
Peak 3	VS DP	18.56667	18.344	0.986
Peak 3	VS IP	18.80000	3.541	0.370
Peak 3	LS 90°	19.10000	0.718	-0.049
Peak 3	LS 15°	18.65000	2.680	0.137

Chromatogram Plot



Analyst:

Date:

Checked By:

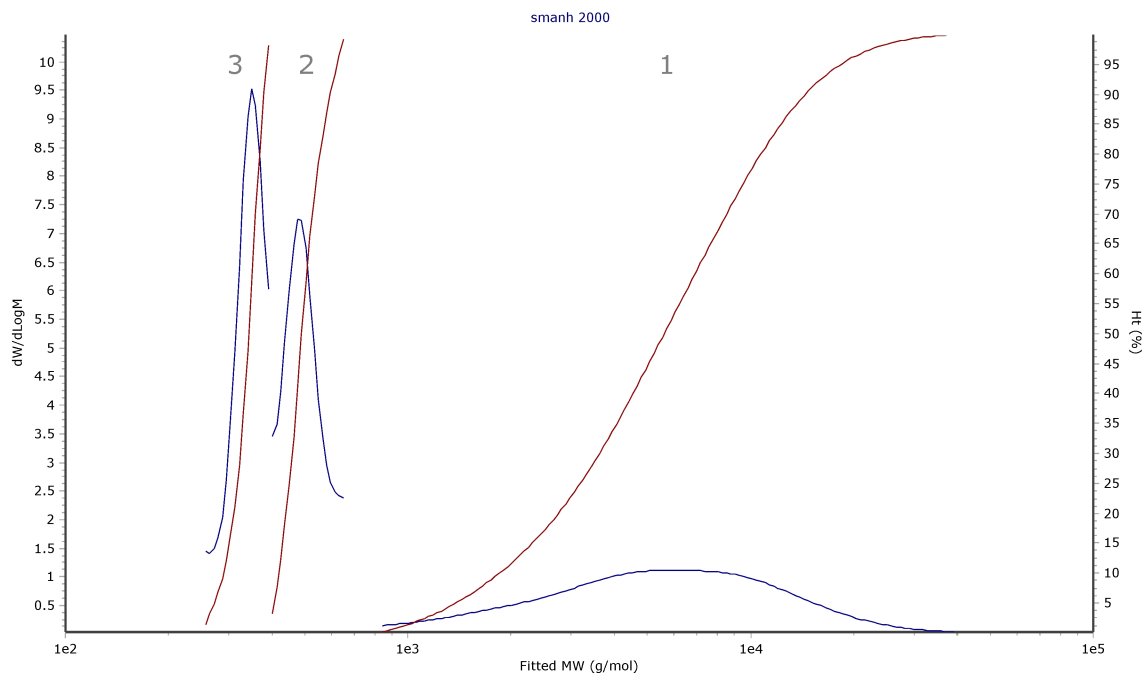
Date:

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Distribution Plot



Analyst:

Date:

Checked By:

Date: