

Agilent GPC/SEC Software Sample GPC Analysis Report



Agilent Technologies

P SManh

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 P SManh
File name ICF_11_04_2018-0007.sample
Collected by GPC at 17:00:37 on 11 April 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 17:42:36 on 11 April 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	5694	5141	5962	6946	8077	6788	1.16
Peak 2	2375	1301	1480	1649	1790	1626	1.138
Peak 3	483	484	495	506	517	504	1.023

Peak Information

	Start (mins)	End (mins)
Baseline region 1	25.58333	39.40000
Peak 1	14.15000	16.41667
Peak 2	16.41667	17.96667
Peak 3	17.96667	18.70000

Analyst:

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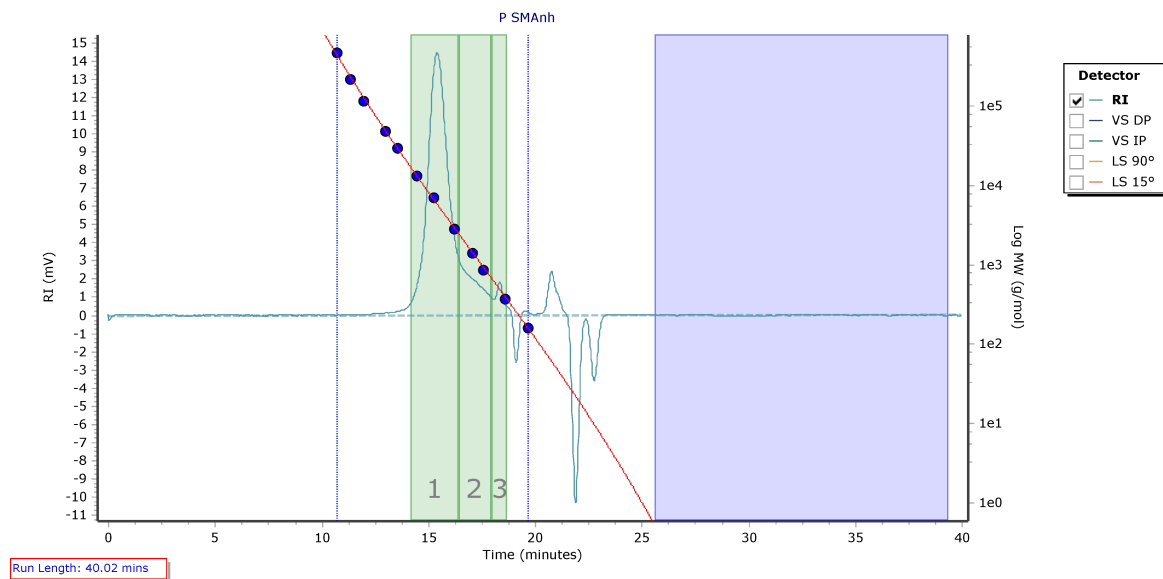


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Peak Trace Information

Peak	Trace	Peak Max RT (mins)	Peak Area (mV.s)	Peak Height (mV)
Peak 1	RI	15.38333	968.681	14.462
Peak 1	VS DP	15.31667	998.908	11.718
Peak 1	VS IP	15.46667	30.531	0.599
Peak 1	LS 90°	15.45000	343.986	7.259
Peak 1	LS 15°	15.45000	71.982	2.594
Peak 2	RI	16.41667	174.899	3.089
Peak 2	VS DP	16.41667	382.265	4.804
Peak 2	VS IP	17.31667	7.434	-0.521
Peak 2	LS 90°	16.58333	37.744	0.559
Peak 2	LS 15°	16.51667	54.390	-0.646
Peak 3	RI	18.31667	48.981	1.862
Peak 3	VS DP	18.65000	143.242	3.539
Peak 3	VS IP	18.63333	2.389	-0.456
Peak 3	LS 90°	18.05000	10.065	0.299
Peak 3	LS 15°	17.98333	25.573	-0.625

Chromatogram Plot



Analyst:

Date:

Checked By:

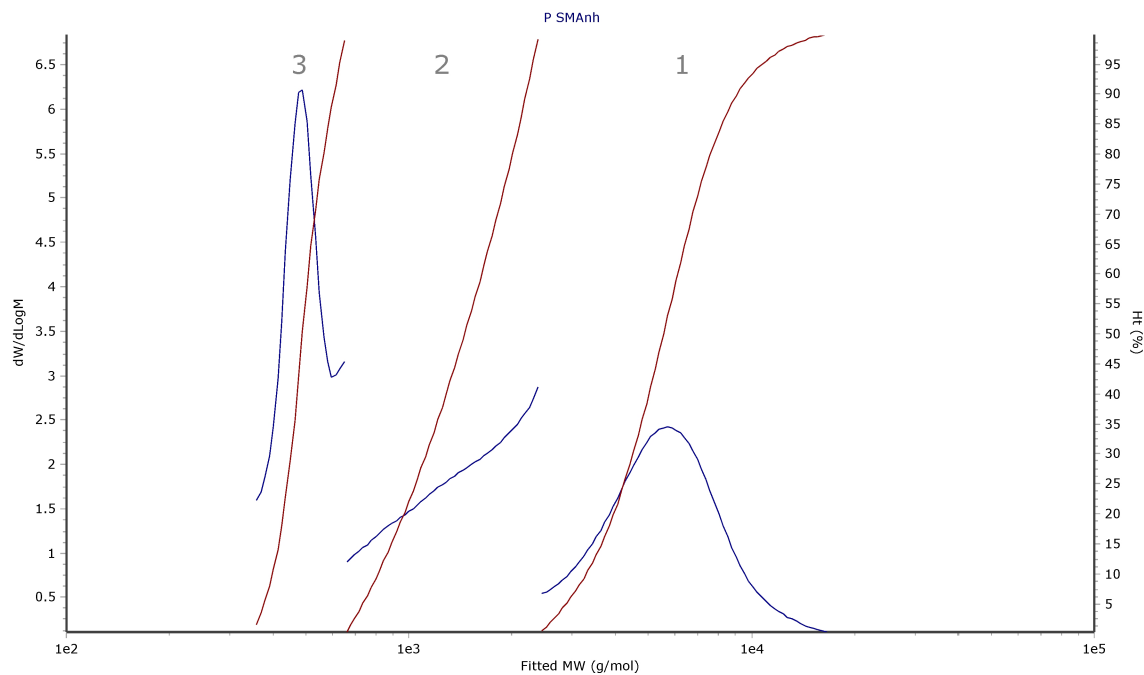
Date:

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Distribution Plot



Analyst:

Date:

Checked By:

Date: