

Agilent GPC/SEC Software Sample GPC Analysis Report



Agilent Technologies

Z

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 Z
File name ICF_07_11_2018-0006.sample
Collected by GPC at 10:46:08 on 08 November 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 14:37:26 on 08 November 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	6566	5467	6314	7159	7993	7035	1.155

Peak Information

	Start (mins)	End (mins)
Baseline region 1	8.70000	11.36667
Baseline region 2	25.50000	26.73333
Peak 1	14.16667	16.66667

Peak Trace Information

Peak	Trace	Peak Max RT (mins)	Peak Area (mV.s)	Peak Height (mV)
Peak 1	RI	15.23333	906.129	14.061
Peak 1	VS DP	15.16667	637.278	9.452
Peak 1	VS IP	14.86667	22.593	0.659
Peak 1	LS 90°	15.11667	217.559	3.611
Peak 1	LS 15°	15.06667	68.278	1.182

Analyst:

Date:

Checked By:

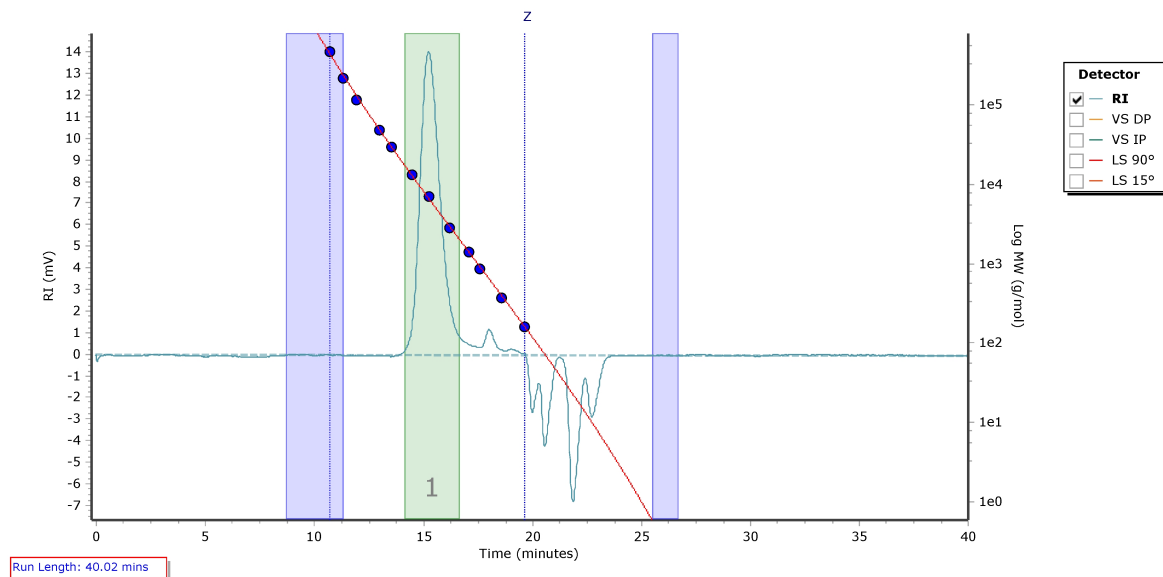
Date:

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Chromatogram Plot



Analyst:

Date:

Checked By:

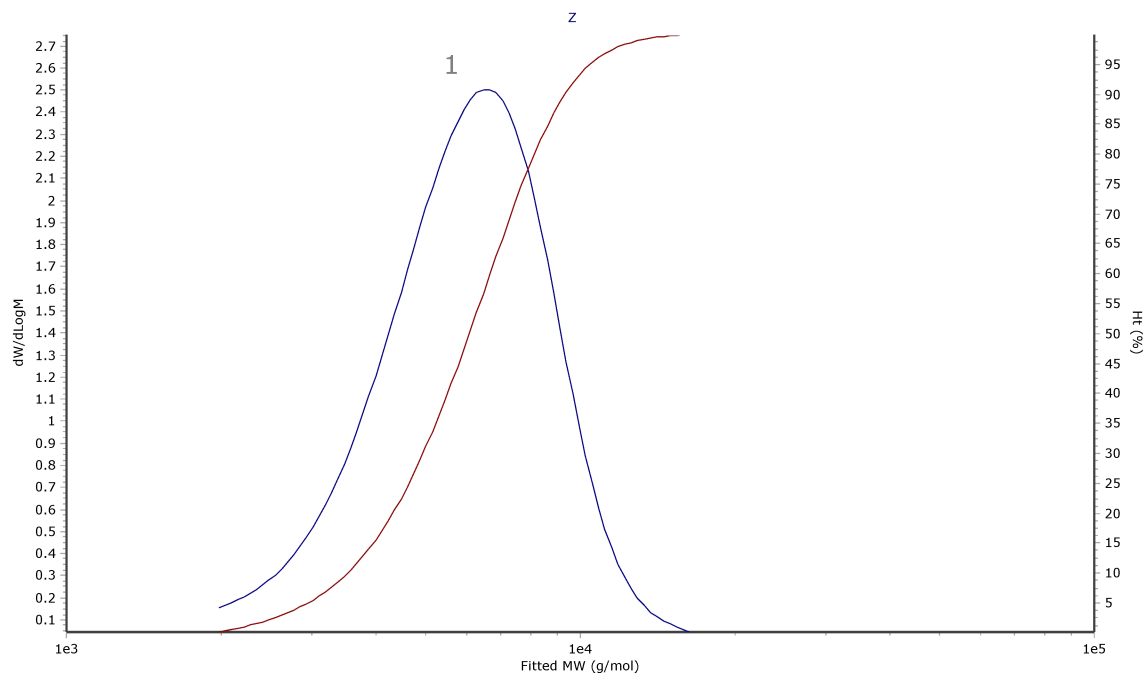
Date:

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Distribution Plot



Analyst:

Date:

Checked By:

Date: