

Agilent GPC/SEC Software Sample GPC Analysis Report



Agilent Technologies

sty partial isis

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 sty partial isis
File name ICF_27_08_2020-0007.sample
Collected by GPC at 13:53:10 on 27 August 2020
Instrument name Instrument 1

Column Calibration Details

Name August 2020 PSty
Created by GPC at 16:43:58 on 12 August 2020
Last modified by GPC at 16:46:34 on 12 August 2020
Comments GPC Column Calibration created 12 August 2020 by GPC
GPC Column Calibration amended 12 August 2020 by GPC
GPC Column Calibration amended 12 August 2020 by GPC
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Calibration Type	Narrow Standard	Curve Fit Used	3
Calibration Curve	$y = -0.0007734x^3 + 0.0323x^2 - 0.8284x + 11.78$		
High Limit MW RT (mins)	11.21667	Low Limit MW RT (mins)	18.10000
High Limit MW (g/mol)	299400	Low Limit MW (g/mol)	580
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	0.00531286	Corrected Sum Of Squares	7.33781
Coeff. Of Determination	0.999276	Standard Y Error Estimate	0.029757
Linear Correlation Coeff	-0.999578		

Column Calibration Data Points

Point	Peak Max RT (mins)	MW	Log MW	Point in Use?	Percent Error
1	11.21667	299400	5.48	Yes	4.65
2	11.80000	151700	5.18	Yes	-11.09
3	12.95000	66350	4.82	Yes	8.28
4	13.50000	38100	4.58	Yes	1.29
5	14.20000	19880	4.30	Yes	-2.70
6	15.00000	9920	4.00	Yes	-2.20
7	15.81667	4920	3.69	Yes	-0.06
8	16.60000	2360	3.37	Yes	-3.02
9	17.38333	1260	3.10	Yes	6.36
10	18.10000	580	2.76	Yes	-2.92

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 15:29:05 on 27 August 2020
 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	2469	1896	2391	2922	3447	2844	1.261

Peak Information

	Start (mins)	End (mins)
Baseline region 1	0.65000	6.70000
Baseline region 2	36.01667	39.76667
Peak 1	15.55000	17.98333

Peak Trace Information

Peak	Trace	Peak Max RT (mins)	Peak Area (mV.s)	Peak Height (mV)
Peak 1	RI	16.60000	1845.270	25.030
Peak 1	VS DP	16.58333	554.127	7.644
Peak 1	VS IP	17.11667	20.184	0.596
Peak 1	LS 90°	16.51667	126.192	2.107
Peak 1	LS 15°	16.50000	57.335	0.837

Analyst:

Date:

Checked By:

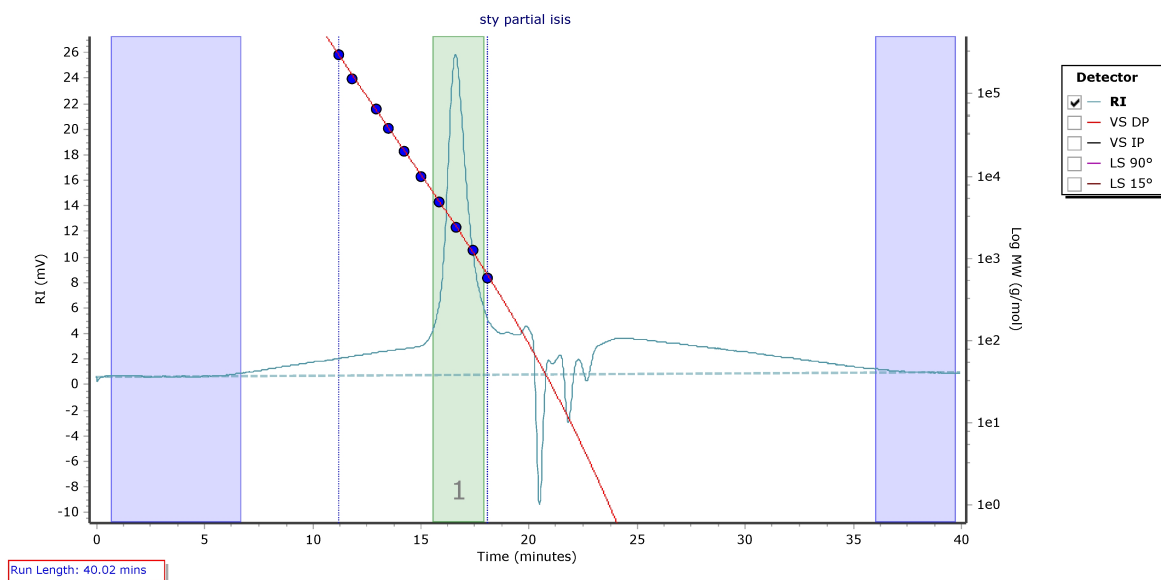
Date:

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Chromatogram Plot



Analyst:

Date:

Checked By:

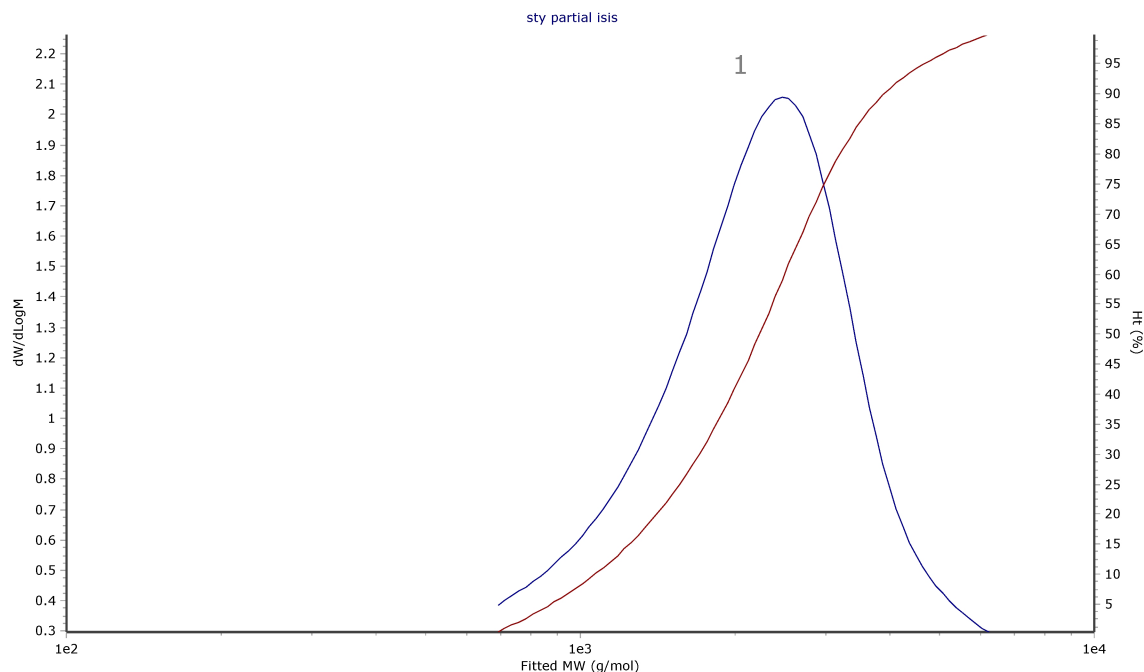
Date:

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Distribution Plot



Analyst:

Date:

Checked By:

Date: