

Agilent GPC/SEC Software Sample GPC Analysis Report



Agilent Technologies

sty

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
File name ICF_27_07_2020-0009.sample
Collected by GPC at 14:31:55 on 27 July 2020
Instrument name Instrument 1

Column Calibration Details

Name PSty 2020 June
Created by GPC at 13:15:08 on 15 June 2020
Last modified by GPC at 13:16:38 on 15 June 2020
Comments GPC Column Calibration created 15 June 2020 by GPC
GPC Column Calibration amended 15 June 2020 by GPC
GPC Column Calibration amended 15 June 2020 by GPC

Calibration Type	Narrow Standard	Curve Fit Used	3
Calibration Curve	$y = -0.002444x^3 + 0.107x^2 - 1.916x + 16.88$		
High Limit MW RT (mins)	11.06667	Low Limit MW RT (mins)	17.30000
High Limit MW (g/mol)	299400	Low Limit MW (g/mol)	1260
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	0.00155214	Corrected Sum Of Squares	5.26776
Coeff. Of Determination	0.999705	Standard Y Error Estimate	0.0176189
Linear Correlation Coeff	-0.999574		

Column Calibration Data Points

Point	Peak Max RT (mins)	MW	Log MW	Point in Use?	Percent Error
1	11.06667	299400	5.48	Yes	3.40
2	11.66667	151700	5.18	Yes	-4.99
3	12.60000	66350	4.82	Yes	-1.58
4	13.26667	38100	4.58	Yes	0.64
5	14.10000	19880	4.30	Yes	4.91
6	14.88333	9920	4.00	Yes	-0.30
7	15.71667	4920	3.69	Yes	-1.45
8	16.55000	2360	3.37	Yes	-3.33
9	17.30000	1260	3.10	Yes	2.29

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 15:38:22 on 27 July 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	2299	1901	2292	2713	3168	2648	1.206

Peak Information

	Start (mins)	End (mins)
Baseline region 1	1.55000	9.73333
Baseline region 2	29.06667	37.26667
Peak 1	15.36667	18.00000

Peak Trace Information

Peak	Trace	Peak Max RT (mins)	Peak Area (mV.s)	Peak Height (mV)
Peak 1	RI	16.63333	1745.212	27.105
Peak 1	VS DP	16.65000	612.479	8.718
Peak 1	VS IP	15.86667	22.258	0.576
Peak 1	LS 90°	16.55000	171.309	2.700
Peak 1	LS 15°	16.58333	46.045	0.728

Analyst:

Date:

Checked By:

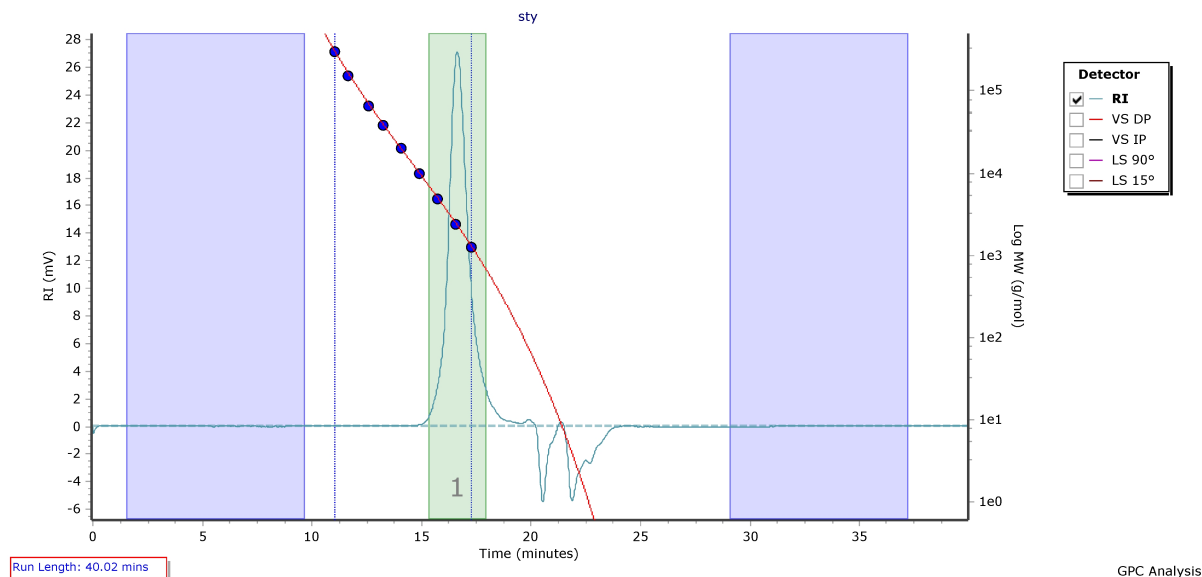
Date:

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Chromatogram Plot



Analyst:

Date:

Checked By:

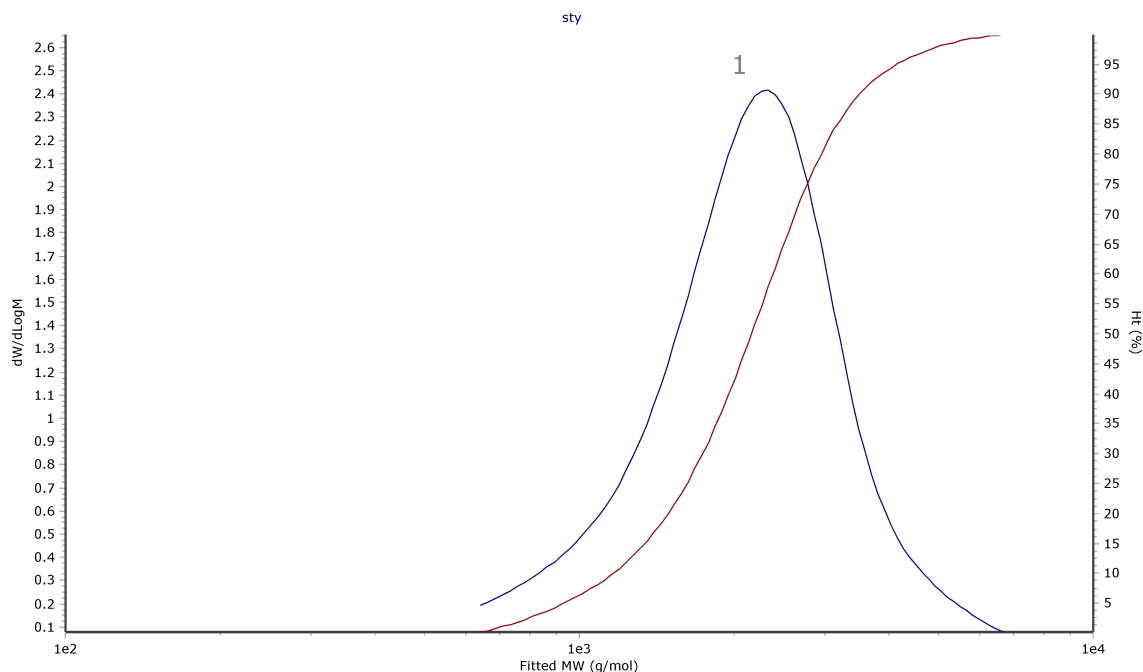
Date:

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Distribution Plot



Analyst:

Date:

Checked By:

Date: