

Agilent GPC/SEC Software Sample GPC Analysis Report



Agilent Technologies

E

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 E
File name ICF_07_11_2018-0011.sample
Collected by GPC at 14:15:27 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 09:55:06 on 09 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 | 9670 | 8044 | 9524 | 11009 | 12635 | 10783 | 1.184 |

Peak Information

| | Start (mins) | End (mins) |
|-------------------|--------------|------------|
| Baseline region 1 | 4.13333 | 6.80000 |
| Peak 1 | 13.50000 | 16.43333 |

Peak Trace Information

| Peak | Trace | Peak Max RT (mins) | Peak Area (mV.s) | Peak Height (mV) |
|--------|--------|--------------------|------------------|------------------|
| Peak 1 | RI | 14.76667 | 939.989 | 16.127 |
| Peak 1 | VS DP | 14.76667 | 821.046 | 13.144 |
| Peak 1 | VS IP | 16.26667 | 21.069 | -0.595 |
| Peak 1 | LS 90° | 14.71667 | 329.188 | 5.959 |
| Peak 1 | LS 15° | 14.71667 | 111.136 | 2.020 |

Analyst:

Date:

Checked By:

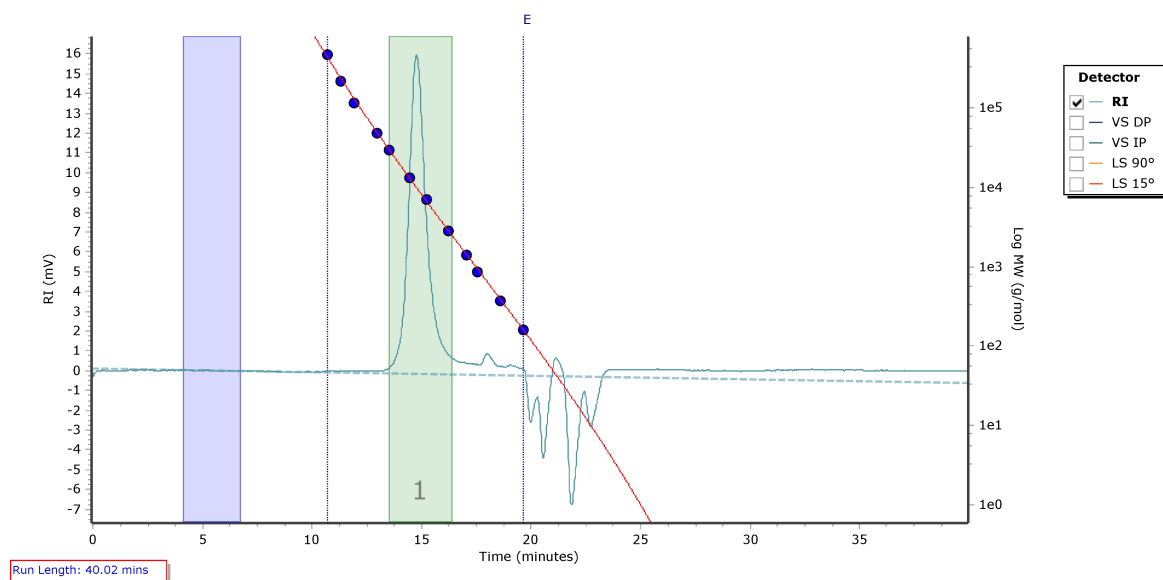
Date:

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Chromatogram Plot



Analyst:

Date:

Checked By:

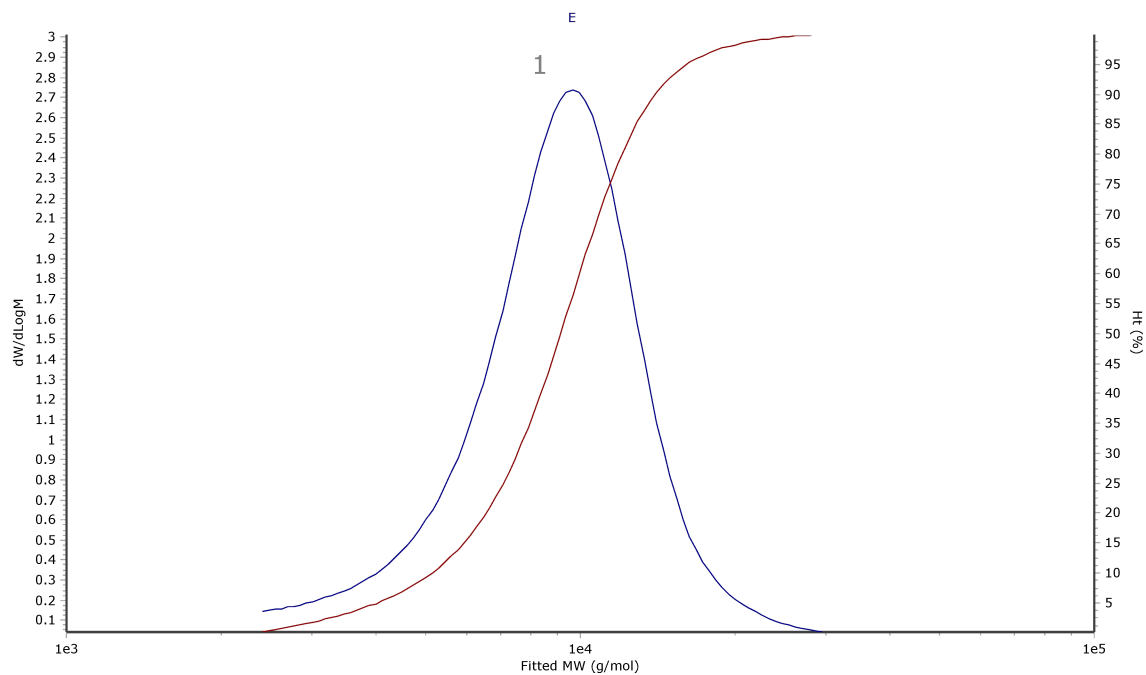
Date:

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Distribution Plot



Analyst:

Date:

Checked By:

Date: