

# Agilent GPC/SEC Software Sample GPC Analysis Report



**Agilent Technologies**

## full isis rev

### 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 full isis rev  
File name ICF\_27\_08\_2020-0008.sample  
Collected by GPC at 14:35:03 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  
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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 15:33:46 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	5302	4639	5255	5904	6569	5807	1.133

## Peak Information

	Start (mins)	End (mins)
Baseline region 1	1.86667	9.18333
Baseline region 2	30.13333	37.33333
Peak 1	14.78333	16.83333

## Peak Trace Information

Peak	Trace	Peak Max RT (mins)	Peak Area (mV.s)	Peak Height (mV)
Peak 1	RI	15.75000	1351.628	23.070
Peak 1	VS DP	15.70000	894.385	13.276
Peak 1	VS IP	15.56667	29.713	0.725
Peak 1	LS 90°	15.70000	241.137	4.159
Peak 1	LS 15°	15.70000	52.420	1.122

Analyst: .....

Date: .....

Checked By: .....

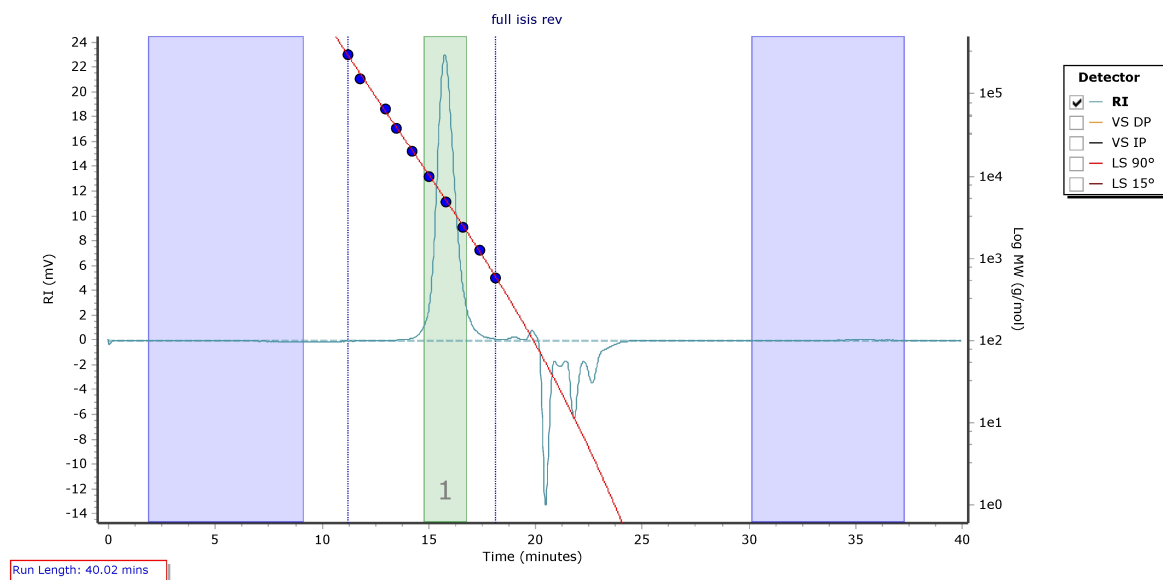
Date: .....

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## Chromatogram Plot



Analyst: .....

Date: .....

Checked By: .....

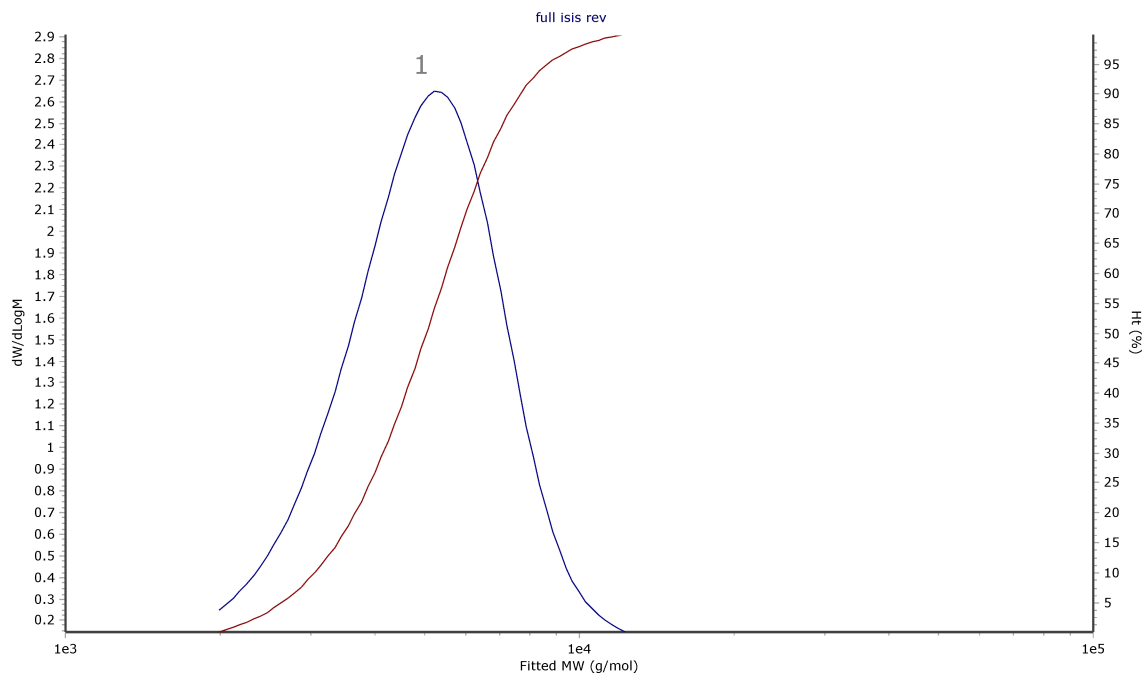
Date: .....

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## Distribution Plot



Analyst: .....

Date: .....

Checked By: .....

Date: .....