

Agilent GPC/SEC Software Sample GPC Analysis Report



Agilent Technologies

d-SMA-R

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 d-SMA-R
File name ICF_04_03_2019-0022.sample
Collected by GPC at 14:26:57 on 05 March 2019
Instrument name Instrument 1

Column Calibration Details

Name 2019-02-08-001
Created by GPC at 12:43:44 on 08 February 2019
Last modified by GPC at 12:46:38 on 08 February 2019
Comments GPC Column Calibration created 08 February 2019 by GPC
GPC Column Calibration amended 08 February 2019 by GPC
GPC Column Calibration amended 08 February 2019 by GPC

Calibration Type	Narrow Standard	Curve Fit Used	3
Calibration Curve	$y = -0.002437x^3 + 0.1083x^2 - 1.968x + 17.34$		
High Limit MW RT (mins)	11.20000	Low Limit MW RT (mins)	18.08333
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	0.00344765	Corrected Sum Of Squares	7.33781
Coeff. Of Determination	0.99953	Standard Y Error Estimate	0.023971
Linear Correlation Coeff	-0.999497		

Column Calibration Data Points

Point	Peak Max RT (mins)	MW	Log MW	Point in Use?	Percent Error
1	11.20000	299400	5.48	Yes	3.58
2	11.80000	151700	5.18	Yes	-3.10
3	12.61667	66350	4.82	Yes	-8.38
4	13.40000	38100	4.58	Yes	6.14
5	14.15000	19880	4.30	Yes	5.27
6	14.88333	9920	4.00	Yes	-2.67
7	15.75000	4920	3.69	Yes	0.15
8	16.55000	2360	3.37	Yes	-4.05
9	17.30000	1260	3.10	Yes	1.63
10	18.08333	580	2.76	Yes	0.52

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 16:06:42 on 05 March 2019
 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	6699	6203	7005	7859	8722	7731	1.129
Peak 2	2280	1406	1539	1662	1764	1645	1.095

Peak Information

	Start (mins)	End (mins)
Baseline region 1	4.90000	10.15000
Peak 1	14.45000	16.41667
Peak 2	16.63333	17.85000

Peak Trace Information

Peak	Trace	Peak Max RT (mins)	Peak Area (mV.s)	Peak Height (mV)
Peak 1	RI	15.40000	1166.075	18.608
Peak 1	VS DP	15.26667	740.290	11.267
Peak 1	VS IP	15.38333	23.460	0.758
Peak 1	LS 90°	15.30000	283.184	4.418
Peak 1	LS 15°	15.30000	65.248	1.102
Peak 2	RI	16.63333	87.983	1.852
Peak 2	VS DP	16.68333	64.883	1.436
Peak 2	VS IP	16.68333	13.173	-0.615
Peak 2	LS 90°	16.63333	8.988	0.220
Peak 2	LS 15°	17.65000	8.028	-0.146

Analyst:

Date:

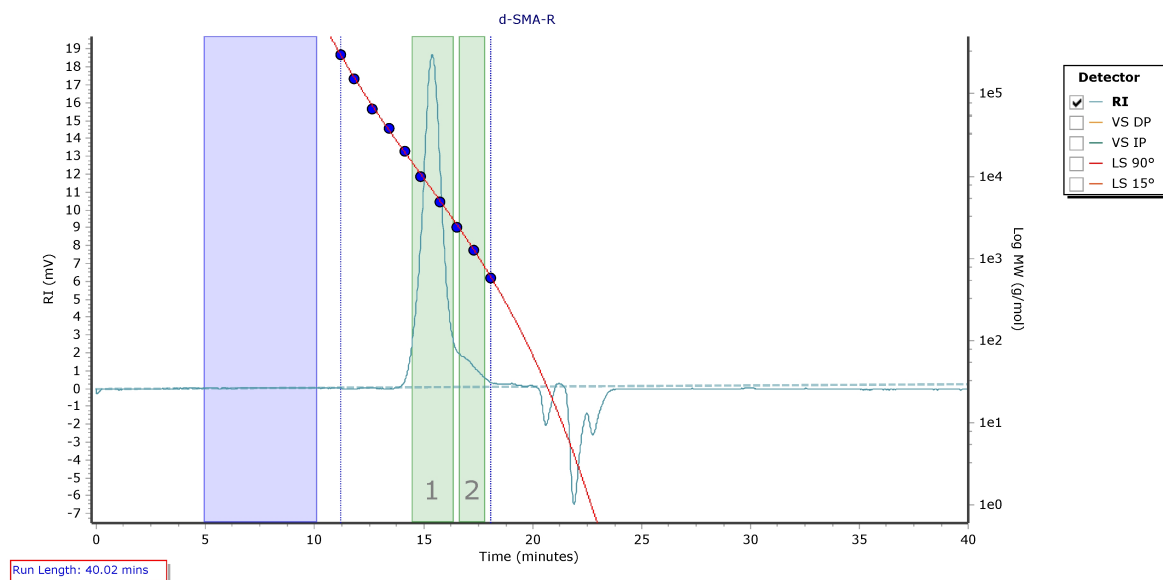
Checked By:

Date:

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Chromatogram Plot



Analyst:

Date:

Checked By:

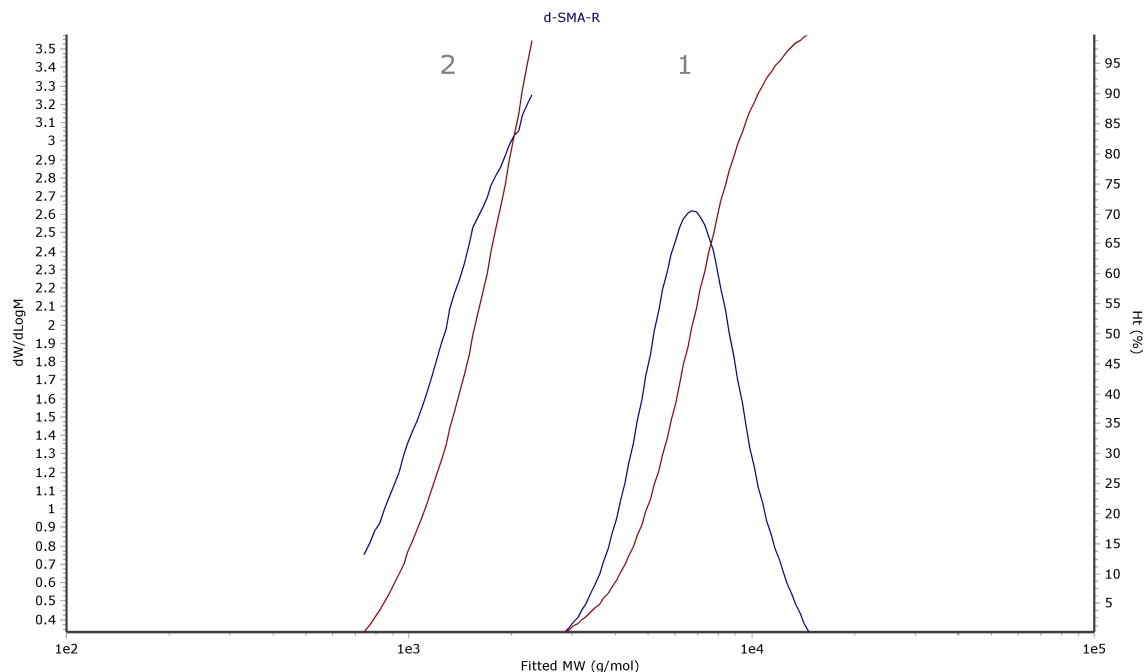
Date:

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Distribution Plot



Analyst:

Date:

Checked By:

Date: