

# Certificate of Analysis



Agilent Technologies, Inc. acquired Polymer Standards Service GmbH (PSS) on August 01<sup>st</sup>, 2022.

The Quality Certificate / Certificate of Analysis generated by PSS attached to this Letter is valid for the Product stated in the Certificate sold to You by Agilent Technologies, Inc or its subsidiaries.

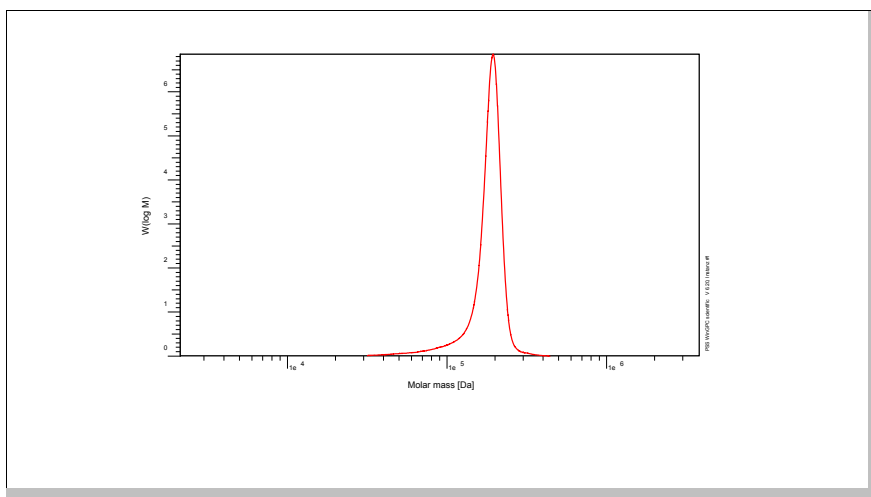
Patrick Kunzweiler

Quality Manager  
Liquid Phase Separation Division

# Certificate of Analysis

Polymer type: Poly(methyl methacrylate)  
 Part No: PSS-MM170K  
 Lot No: MM28065

## Molar Mass Distribution



## GPC/SEC - Conditions

Sample concentration	1.00 g/l	Injection volume	20 µl
Solvent	Tetrahydrofuran	Flow rate	1.0 ml/min
Columns [analytical, each 8 x 300 mm]	PSS SDV 5µm 10e3A / 10e5A / 10e6A	Temperature	25 °C
Data Acquisition Software	PSS WinGPC		
calibration:	12 PSS Poly(methyl methacrylate) standards		

## GPC/SEC - Results

Detector	Mw [Da]	Mn [Da]	Mp [Da]	PDI [Mw/Mn]
PSS SECcurity RI	173000	165000	182000	1.05

## Additional Methods - Results

Method	Mw [Da]
Light Scattering, on-line (SLD7x00)	175000

Mw = Weight average molecular weight  
 Mn = Number average molecular weight  
 Mp = Molar mass at the peak maximum  
 PDI = Polydispersity Index

Light Scattering run on-line.

System and instrument validation based on Certified Reference Materials Poly(styrene) Lot No: ERM-FA001.

Inject volume: 100µL  
 Sample dn/dc: 0.087mL/g

**Storage:** Store the tightly recapped polymer standard in a dry, dark, cool area; e.g. a refrigerator (4 °C).

**Date of expiry:** 2032/05/31 (See also product label.)

**Date of approval:** 2023/02/15

Manufacture and control according to PSS method of analysis



Dr. J. Preis  
 production manager

