

Certificate of Analysis



Agilent Technologies, Inc. acquired Polymer Standards Service GmbH (PSS) on August 01st, 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.

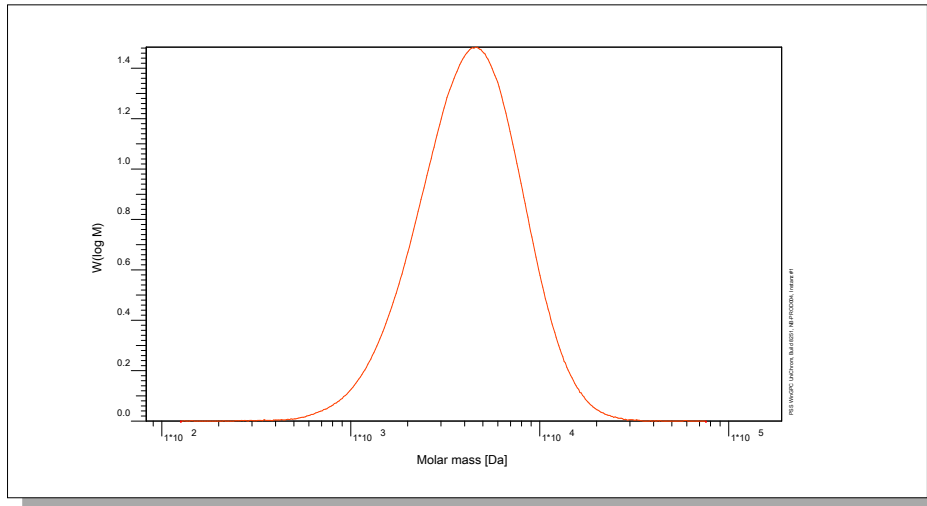
Patrick Kunzweiler

Quality Manager
Liquid Phase Separation Division

Certificate of Analysis

Polymer type: Dextran
 Part No: PSS-DXT5K
 Lot No: DXT020218

Molar Mass Distribution



GPC/SEC - Conditions

Sample concentration	1,00 g/l	Inject volume	20 µl
Solvent	Water, Sodium azide 0.5g/L	Flow rate	1,00 ml/min
Precolumn [8 x 50 mm]	PSS SUPREMA 10µm	Temperature	23 °C
Columns [analytical, each 8 x 300 mm]	PSS SUPREMA 10µm ultrahigh / ultrahigh / ultrahigh		
Data Acquisition Software	PSS WinGPC	Operator	J.Preis

GPC/SEC - Results

Detector	Mw [Da]	Mn [Da]	Mp [Da]	PDI [Mw/Mn]
PSS SECcurity RI	5070	3380	4410	1,50

Additional Methods - Results

Method	Mw [Da]
Light Scattering, on-line (SLD7x00)	5160

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 DIN-Pullulan Lot No: p-100di.

Sample concentration 12.1959 g/L
 Inject volume 100µL
 Sample dn/dc 0.145mL/g

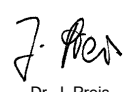
Please note: The GPC molar mass data are based on a set of dextran reference samples with a different degree of branching. The light scattering result represents the molar mass based on the branching of the sample.

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

Date of expiry: 2032/11/30 (See also product label.)

Date of approval: 2023/02/21

Manufacture control according to PSS method of analysis


 Dr. J. Preis
 production manager

