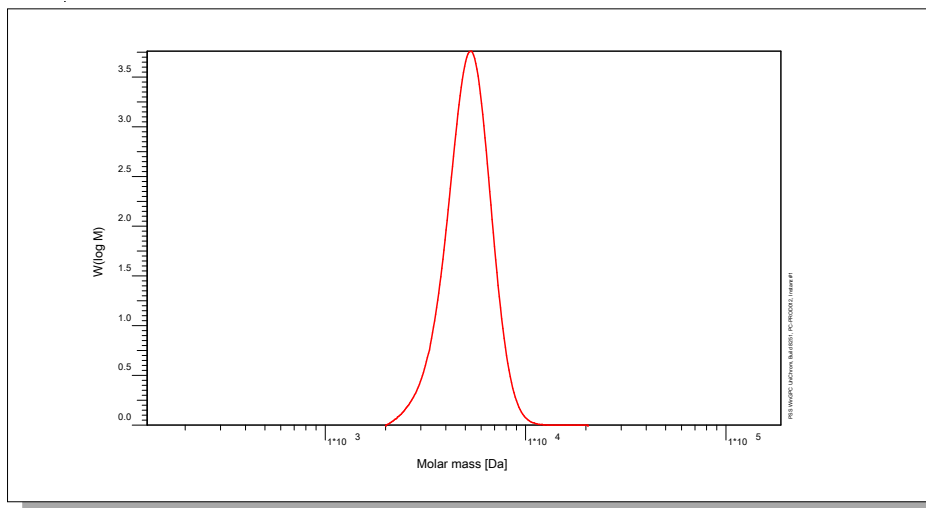


# Certificate of Analysis

Polymer type: Poly(ethylene oxide-d4)  
 Part No: PSS-peode6k  
 Lot No: peod4191119

## Molar Mass Distribution



## GPC/SEC - Conditions

Sample concentration	1,00 g/l	Inject volume	20 µl
Solvent	H2O+0,2g/L NaN3	Flow rate	1,00 ml/min
Precolumn [8 x 50 mm]	PSS SUPREMA 5µm	Temperature	23 °C
Columns [analytical, each 8 x 300 mm]	PSS SUPREMA 5µm 100Å / 100Å / 100Å		
Data Acquisition Software	PSS WinGPC	Operator	A.Klein

## GPC/SEC - Results

Detector	Mw [Da]	Mn [Da]	Mp [Da]	PDI [Mw/Mn]
PSS SECcurity <sup>2</sup> RI	5770	5410	5840	1,07

## Additional Methods - Results

Method	Mw [Da]
Light Scattering, on-line (SLD7x00)	5560

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

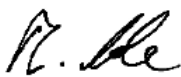
Light Scattering run on-line, based on Toluene Rayleigh Ratio  $R \approx 1.404 \cdot 10^{-5} \text{ cm}^{-1}$  at 633 nm.  
 System and instrument validation based on Pullulan Lot No: p-100-2di.

Sample concentration 10,0792 g/L  
 Inject volume 100µL

Polymer is stabilized with deuterated methanol.

**Storage:** Store the tightly recapped polymer standard in a dry, dark, cool area; e.g. a refrigerator (4 °C).  
**Date of expiry:** yyyy/mm/dd (See also product label.)  
**Date of approval:** yyyy/mm/dd

Manufacture and control according to PSS method of analysis

  
 Dr. T. Hofe  
 production director

