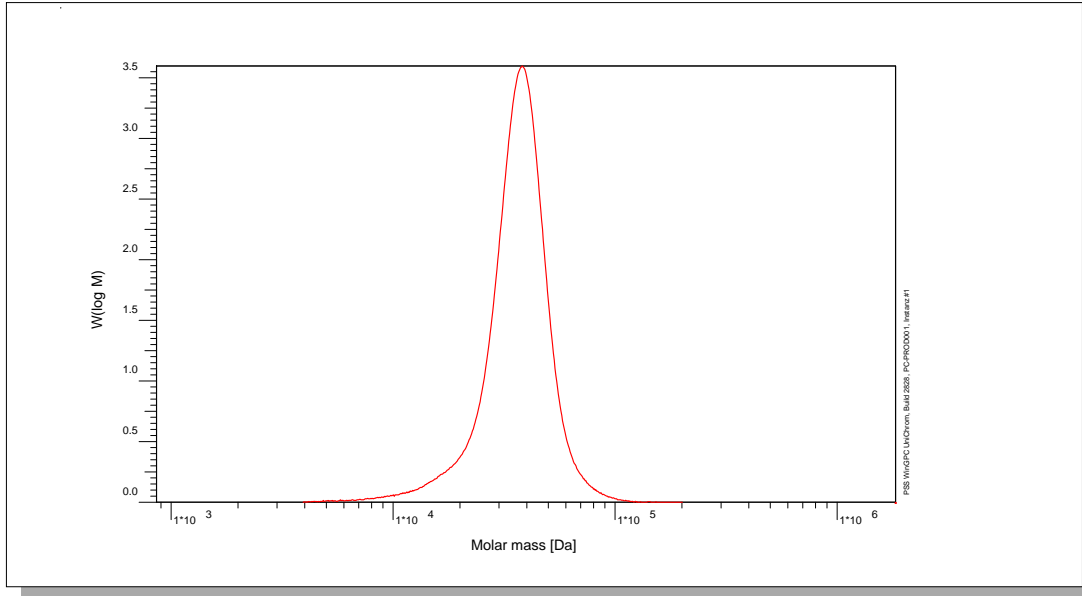


# Certificate of Analysis

Polymer type: Poly(ethylene glycol)  
 Part No: PSS-peg42k  
 Lot No: peg121015

## Molar Mass Distribution



## GPC/SEC - Conditions

Sample concentration	1,00 g/l	Inject volume	20 µl
Flow rate	1,00 ml/min	Temperature	30 °C
Solvent	Water, Sodium azide 0.2g/L		
Precolumn [8 x 50 mm]	PSS SUPREMA 10µm		
Columns [analytical, each 8 x 300 mm]	PSS SUPREMA 10µm 100Å / 100Å / 10 000Å / 10 000Å		
Data Acquisition Software	PSS WinGPC	Operator	J.Preis

## GPC/SEC - Results

Detector	Mw [Da]	Mn [Da]	Mp [Da]	PDI [Mw/Mn]
Agilent RID	41300	31700	44000	1,30

## Additional Methods - Results

Method	Mw [Da]
Light Scattering, on-line (SLD7x00)	39800

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  $R = 1.404 \cdot 10^{-5} \text{ cm}^{-1}$  at 633 nm.  
 System and instrument validation based on DIN-Pullulan Lot No: p-100di.

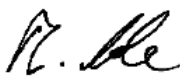
Sample concentration 4.1717 g/L  
 Inject volume 100µL  
 Sample dn/dc 0.132mL/g

**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 control according to PSS method of analysis

  
 Dr. T. Hofe  
 production director

