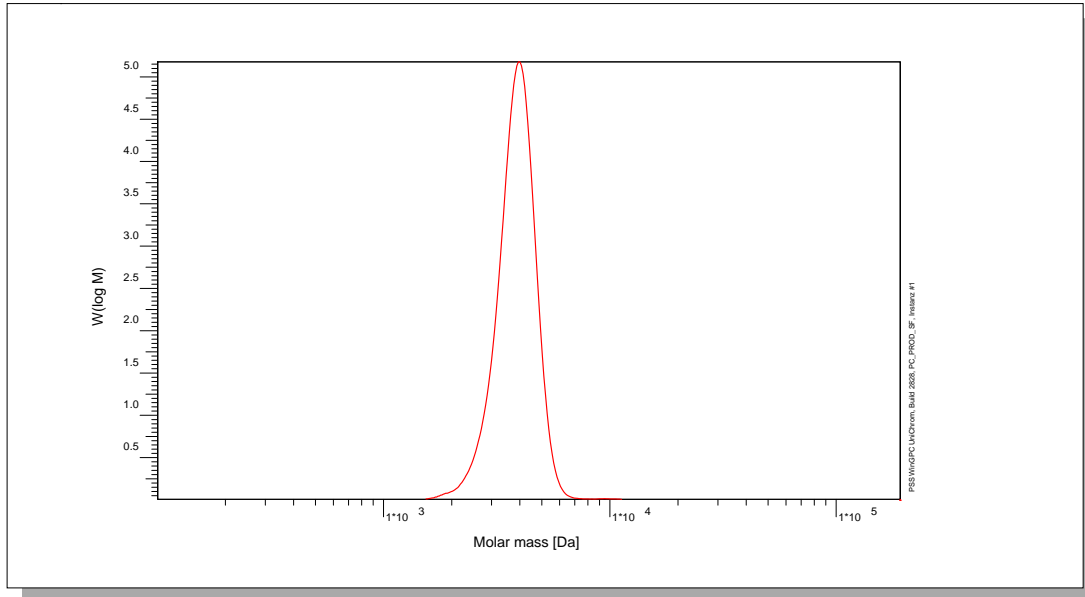


Certificate of Analysis

Polymer type: Poly(ethylene glycol)
 Part No: PSS-peg4k
 Lot No: peg050213

Molar Mass Distribution



GPC/SEC - Conditions

Sample concentration	1,00 g/l	Inject volume	20 µl
Solvent	Water, Sodium azide 0.2g/l	Flow rate	1,00 ml/min
Precolumn [8 x 50 mm]	PSS SDV 5µm	Temperature	30 °C
Columns [analytical, each 8 x 300 mm]	PSS SUPREMA 5µm 100Å / 1 000Å	Operator	S.Fugmann
Data Acquisition Software	PSS WinGPC		

GPC/SEC - Results

Detector	Mw [Da]	Mn [Da]	Mp [Da]	PDI [Mw/Mn]
Agilent RID	4240	4070	4100	1,04

Additional Methods - Results

Method	Mw [Da]
Light Scattering, on-line (SLD7x00)	4460

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 Certified Reference Materials Poly(styrene) Lot No: ERM-FA001 (THF)

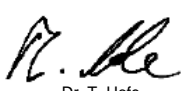
Sample concentration 9.8083g/L
 Inject volume 100µL

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

