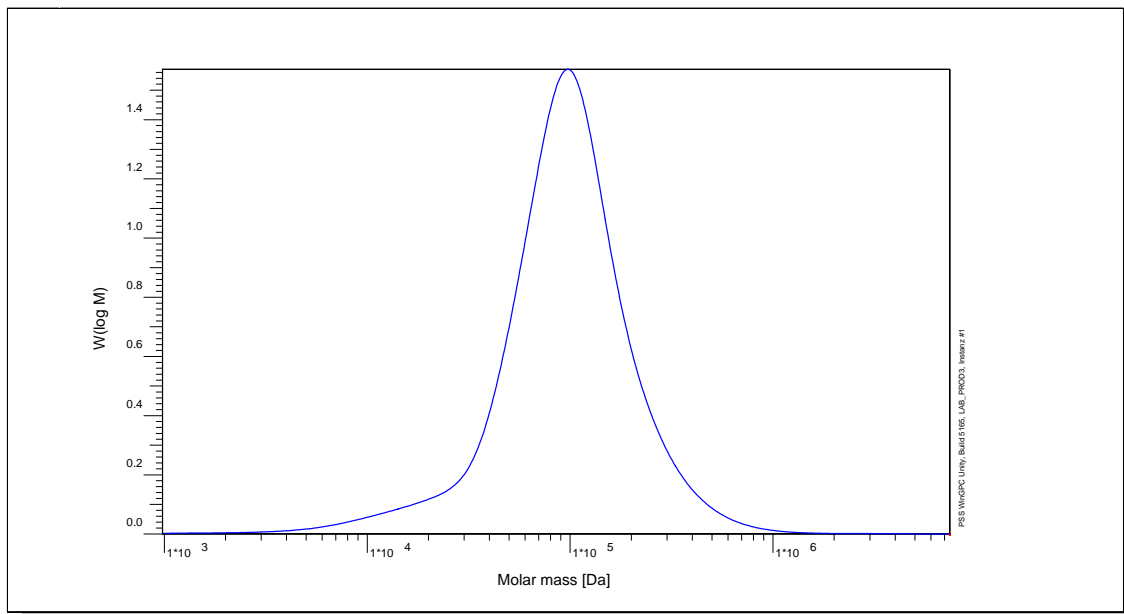


# Certificate of Analysis

Polymer type: Poly(styrene sulfonate) sodium salt broad  
 Part No: PSS-pssb100k  
 Lot No: pssbr58n

## Molar Mass Distribution



## GPC/SEC - Conditions

Sample concentration	2,00 g/l	Inject volume	20 µl
Solvent	Na2HPO4/pH9	Flow rate	1,00 ml/min
Precolumn [8 x 50 mm]	PSS MCX 10µm	Temperature	23,0° C
Columns [analytical, each 8 x 300 mm]	PSS MCX 10µm 10e3Å / 10e5Å / 10e7Å	Operator	S. Fugmann
Data Acquisition Software	PSS WinGPC		

## GPC/SEC - Results

Detector	Mw (Da)	Mn (Da)	Mp (Da)	PDI (Mw/Mn)
Agilent UV 254nm	104500	-	-	> 1,50

Parent Poly(styrene) Molecular Weight: Mw (Da) = 55 600 Mn (Da) = 33 300 Mp (Da) = - PDI = >1.50

**Note:**

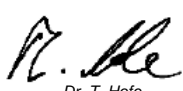
Mw = Weight average molecular weight  
 Mn = Number average molecular weight  
 Mp = Molar mass at the peak maximum  
 PDI = Polydispersity Index

Molecular weights are calculated with factor 1.88  
 (pss sodium salt / ps x 0.95)  
 Degree of sulfonation > 90 %

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

**Date of expiry:** See product label.

Manufacture and control according to PSS method of analysis

  
 Dr. T. Hofe  
 production director

