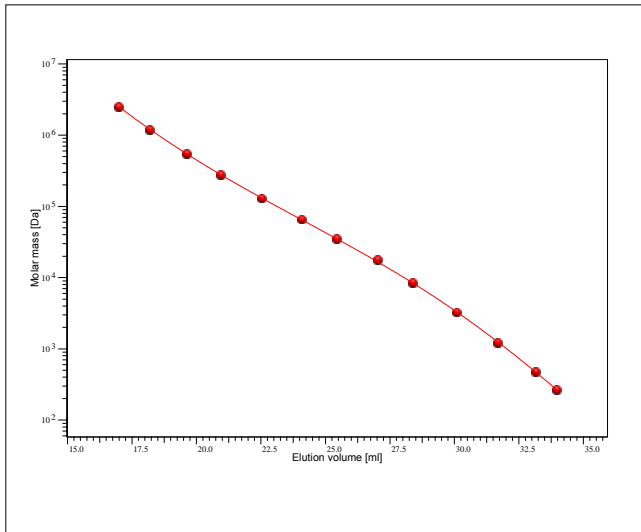


Certificate of Analysis

Kit type: ReadyCal-Kit Poly(styrene)
 Part No: PSS-pskitr1
 Lot No: pskitr1-04

GPC/SEC - Calibration Curve



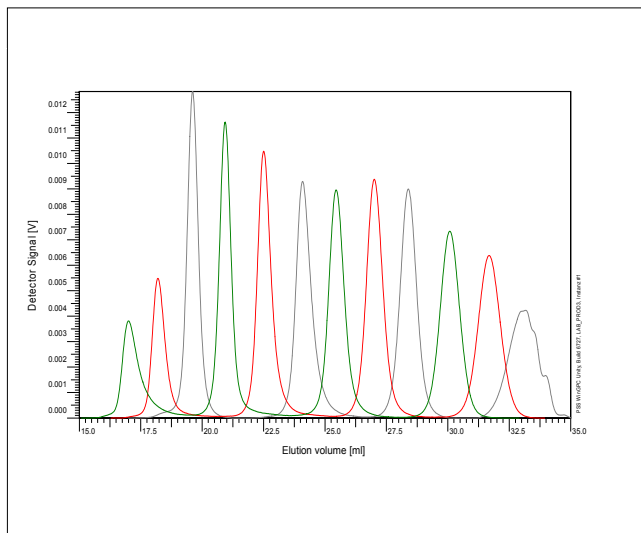
GPC/SEC - Calibration Table

Elution volume [ml]	Mp [Da]	Polymer Lot No:	Deviation [%]
17,0026	2520000	ps090705	-0,7704
18,1962	1210000	ps31059	0,1417
19,6201	549000	ps9029n	-0,0038
20,9347	277000	ps23012	1,3174
22,5130	130000	ps1087	1,9982
24,0850	66000	ps5124	-1,6364
25,4500	34800	ps250504	0,5085
27,0131	17600	ps27119	-4,6362
28,3833	8400	ps7077	0,4542
30,0820	3250	ps14057	2,1437
31,6799	1220	ps18028	2,8835
33,1647	474	ps4072n	-1,3199
33,9811	266	ps4072n	-0,8465

Note:

Mp = Molar mass at the peak maximum

GPC/SEC - Polymer Overlay



GPC/SEC - Calibration Conditions

Solvent	Tetrahydrofuran
Flow rate	1,00 ml/min
Precolumn [8 x 50 mm]	PSS SDV 5µm
Columns [8 x 300 mm]	PSS SDV 5µm 10e3Å / 10e5Å / 10e6Å
Temperature	23° C
Inject volume	20 µl
Internal standard	Toluene at 36,68 ml
Data Acquisition Software	PSS WinGPC
Calibration by	S.Fugmann

Fit quality

Fit-type	PSS Poly 5
R	0,999978

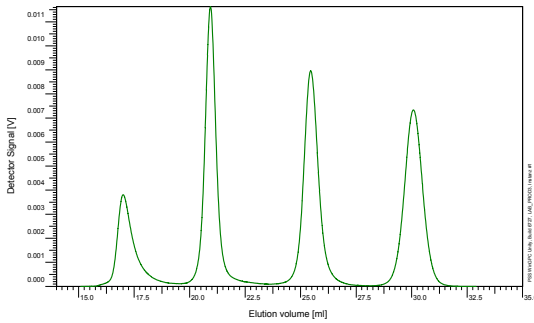
Storage: Store the tightly recapped polymer standards in a dry, dark, cool area; e.g. a refrigerator (4 °C).
 Expiration date: 5 years after purchase date provided standards are stored as described above.
 Purchase date:

Manufacture and control according to PSS method of analysis

Dr. T. Hofe
production director

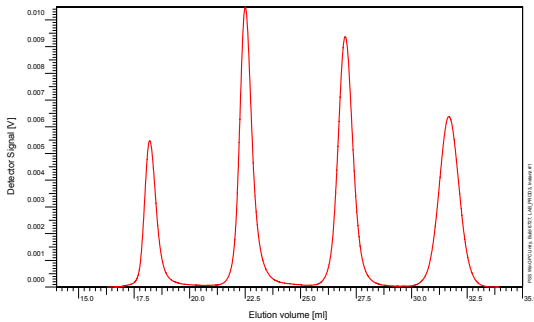
Certificate of Analysis

Kit type: ReadyCal-Kit Poly(styrene)
 Part No: PSS-pskitr1
 Lot No: pskitr1-04



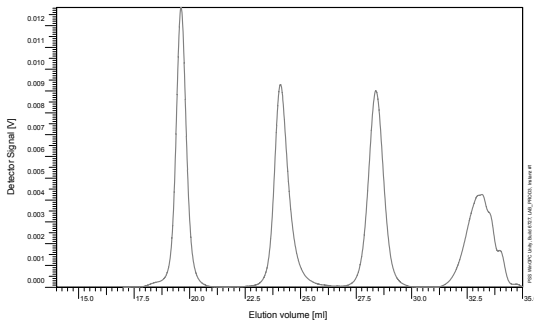
Colour code: Vial – clear / without label Cap – green

Mp [Da]	Mw [Da]	Mn [Da]	Mass [mg]	Lot No:
2 520 000	2 460 000	2 300 000	0.75*	ps090705
277 000	271 000	265 000	1.50	ps31059
34 800	34 000	32 700	1.50	ps9029n
3 250	3 250	3 100	1.50	ps23012



Colour code: Vial – clear / without label Cap – red

Mp [Da]	Mw [Da]	Mn [Da]	Mass [mg]	Lot No:
1 210 000	1 170 000	1 070 000	0.75*	ps1087
130 000	125 000	120 000	1.50	ps5124
17 600	17 300	16 900	1.50	ps250504
1 220	1 180	1 140	1.50	ps27119



Colour code: Vial – clear / without label Cap – white

Mp [Da]	Mw [Da]	Mn [Da]	Mass [mg]	Lot No:
549 000	552 000	537 000	1.50	ps7077
66 000	62 500	59 300	1.50	ps14057
8 400	8 100	7 800	1.50	ps18028
474	545	470	1.50	ps4072n**

** Polystyrene Mp 474 = highest peak according to the GPC/SEC - Conditions (Lot No: ps4072n oligo - mixture with M_p 474, 370, 266)

For exact determination of sample concentration, we recommend to add the solvent volume precisely.

Level of eluent	full	half	quarter
Volume of eluent	1.5 ml	0.75 ml	0.375 ml
Concentration	1 g/l resp. 0,5 g/l*	2 g/l resp. 1 g/l*	4 g/l resp. 2 g/l*

Note: Please use suitable caps and septa for high-temperature applications.