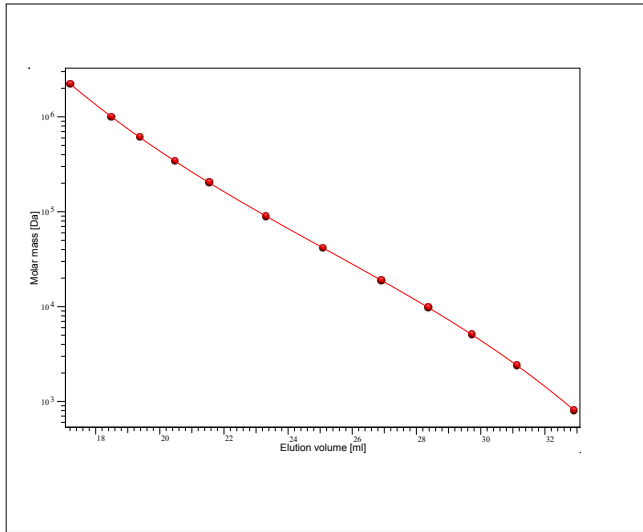


Certificate of Analysis

Product: ReadyCal-Kit Poly(methyl methacrylate)
 Part No: PSS-mmkitr4
 Lot No: mmkitr4-07

GPC/SEC - Calibration Curve



GPC/SEC - Calibration Table

Elution volume [ml]	Mp [Da]	Polymer Lot No:
17,23	2200000	mm290403n
18,51	988000	mm160609
19,40	608000	mm16120
20,50	340000	mm131004
21,58	202000	mm31075
23,33	88500	mmg060808
25,11	41400	mmg1079
26,94	18700	mmg13079
28,42	9680	mmg260704
29,76	5050	mmg120913
31,18	2380	mmg300413
32,95	800	mmg121202

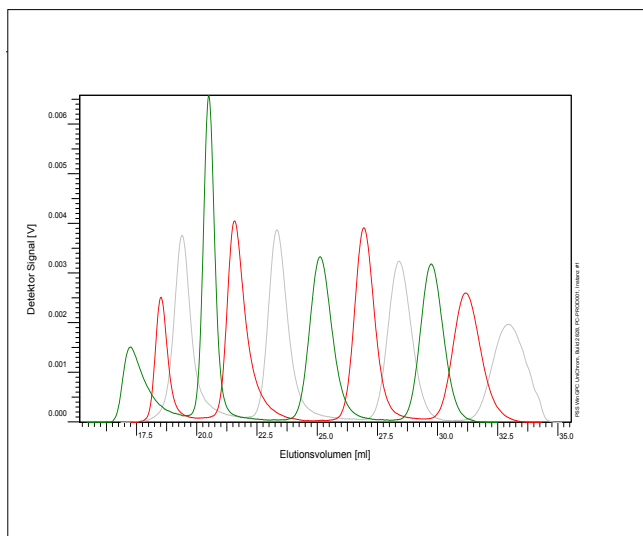
Note:

Mp = Molar mass at the peak maximum

GPC/SEC - Calibration Conditions

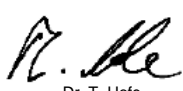
Solvent: Tetrahydrofuran
 Flow rate: 1,00 ml/min
 Precolumn [8 x 50 mm]: PSS SDV 5µm
 Columns [8 x 300 mm]: PSS SDV 5µm 10e3Å / 10e5Å / 10e6Å
 Temperature: 23 °C
 Inject volume: 20 µl
 Internal standard: Toluene at 37,63 ml
 Data Acquisition Software: PSS WinGPC
 Calibration by: J.Preis
 Fit quality: R
 Fit-type: PSS Poly 5
 R: 0,999997

GPC/SEC - Polymer Overlay

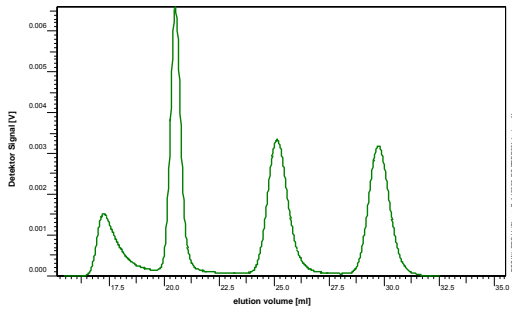


Storage: Store the tightly recapped polymer standards in a dry, dark, cool area; e.g. a refrigerator (4 °C).
 Date of expiry: yyyy/mm/dd (See also product label.)
 Date of approval: yyyy/mm/dd

Manufacture and control according to PSS method of analysis

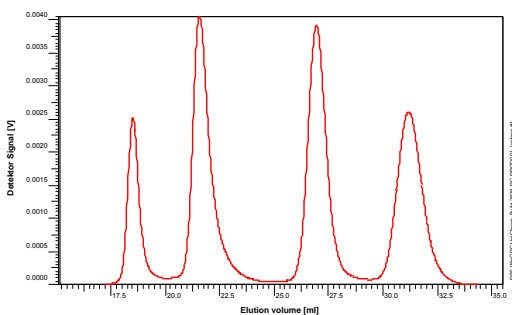

 Dr. T. Hofe
 production director

Product: ReadyCal-Kit Poly(methyl methacrylate)
 Part No: PSS-mmkitr4
 Lot No: mmkitr4-07



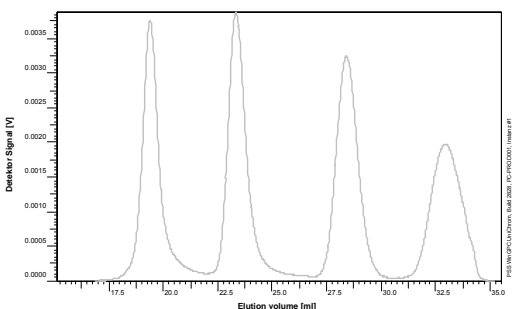
Colour code: Vial – brown / without label Cap – green

Mp [Da]	Mw [Da]	Mn [Da]	Mass [mg]	Lot No:
2 200 000	1 890 000	1 650 000	2.0*	mm290403n
340 000	335 000	323 000	4.0	mm131004
41 400	40 300	38 100	4.0	mmg1079
5 050	4 990	4 690	4.0	mmg120913



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

Mp [Da]	Mw [Da]	Mn [Da]	Mass [mg]	Lot No:
988 000	936 000	850 000	2.0*	mm160609
202 000	187 000	175 000	4.0	mm31075
18 700	18 300	17 200	4.0	mmg13079
2 380	2 260	1 860	4.0	mmg300413



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

Mp [Da]	Mw [Da]	Mn [Da]	Mass [mg]	Lot No:
608 000	592 000	561 000	4.0	mm16120
88 500	86 700	83 700	4.0	mmg060808
9 680	9 590	9 100	4.0	mmg260704
800	831	730	4.0	mmg121202

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

Level of eluent	full	half	quarter
Volume of eluent	4.0 ml	2.0 ml	1.0 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.