

Errata Notice

This document contains references to PSS or Polymer Standards Service. Please note that PSS is now Agilent. This document will be republished as an Agilent document in the future.



A part of Agilent

10024 - Column Application Note Characterization of brominated Poly(styrene)

Brominated Poly(styrene) is obtained by metal catalyzed bromination of Poly(styrene). The bromination is not 100 %. So it is a statistical copolymer of brominated styrene and styrene.

Experimental Setup

| | |
|---------------------|------------------------|
| Mobile Phase: | Tetrahydrofuran |
| Stationary Phase: | PSS SDV |
| Flow rate [mL/min]: | 1,00 |
| Temperature [°C]: | 25 |
| Detection: | Shodex-RI71 |
| Calibration: | Kit Poly(styrene) high |
| Data processing: | PSS WinGPC |

Recommendations for Sample Concentration

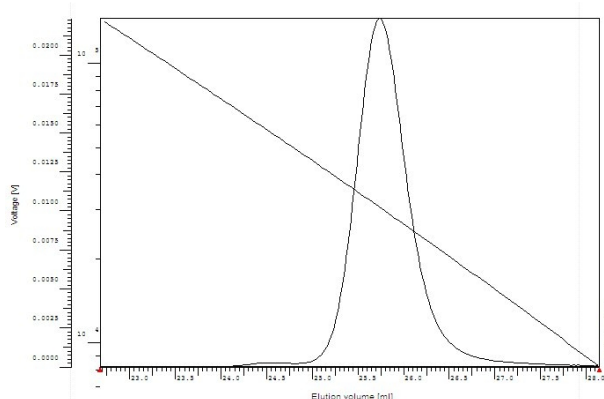
| | |
|------------------------------|-----------------|
| narrow PDI | |
| M 100 Da - 10 000 Da: | 2 g/L |
| M 10 000 Da - 1 000 000 Da: | 1-2 g/L |
| M > 1 000 000 Da: | 0.5 g/L or less |
| broad PDI (>1.5) | |
| all molar masses: | 3.0 - 5.0 g/L |
| Injection volume [μ L]: | 20 |



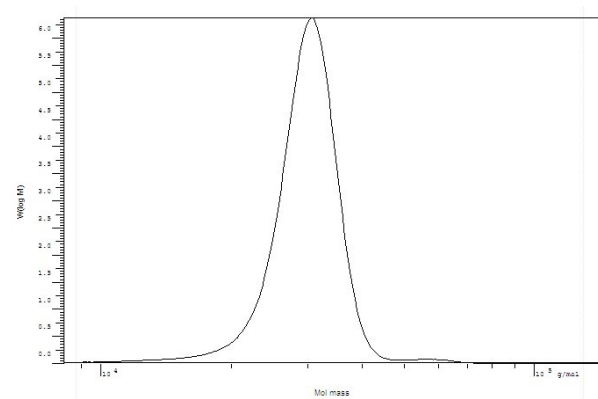
Suitable Columns

| | |
|------------------------------|----------------------------------------------------|
| low molecular weights: | P/N 201-0001 (set of 3) OR sda083003lis (1 linear) |
| medium molecular weights: | P/N 201-0002 (set of 2) OR sda083005lim (1 linear) |
| high molecular weights: | P/N 201-0003 (set of 3) OR sda083005lxl (1 linear) |
| ultrahigh molecular weights: | P/N 202-0001 (set of 3) |

Elugram and Calibration separation on PSS SDV



Molar Mass Distribution separation on PSS SDV



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