#### **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.

# 10090 - Column Application Note Characterization of Dextran Sulfate

🔆 Agilent

Dextran sulfate (DS) is a heparin-like polysaccharide containing approximately 17% sulfur and up to three sulfate groups per glucose molecule. DS is prepared from reaction of chlorosulfuric acid with dextran in pyridine. It is used in ionic two phase separation systems for separation, fractionation and enrichment of proteins, nucleic acids and as a substitute of heparin for coagulation inhibition.

### **Experimental Setup**

Mobile Phase: Stationary Phase: Flow rate [mL/min]: Temperature [°C]: Detection: Calibration: Data processing:

Water Sodium nitrate 0.1M **PSS SUPREMA** 1,00 35 Shodex-RI71 Kit Pullulan **PSS WinGPC** 

# **Recommandations for Sample Concentration**

2 g/L 1-2 g/L

0.5 g/L or less

3.0 - 5.0 g/L 100

narrow PDI M 100 Da - 10 000 Da: M 10 000 Da - 1 000 000 Da: M > 1 000 000 Da: broad PDI (>1.5) all molar masses: Injection volume [µL]:

## Suitable Columns

medium molecular weights: high molecular weights: ultrahigh molecular weights:

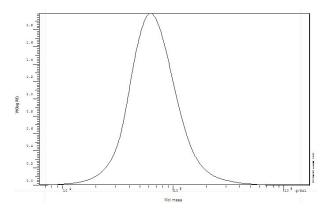
# **Elugram and Calibration**

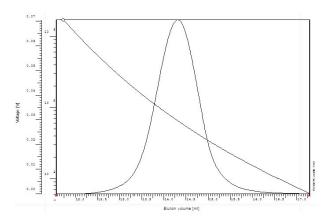
separation on PSS SUPREMA

# low molecular weights:

P/N 206-0001 (set of 3) OR sua083005lis (1 linear) P/N 206-0002 (set of 3) OR sua083005lim (1 linear) P/N 206-0003 (set of 3) OR sua083010lxl (1 linear) P/N 206-0004 (set of 3) OR sua083010luh (1 linear)

#### **Molar Mass Distribution** separation on PSS SUPREMA





CERT

**PSS Polymer Standards** Service GmbH In der Dalheimer Wiese 5 55120 Mainz | Germany

Phone +49 6131 96239-0 +49 6131 96239-11 Fax E-Mail info@pss-polymer.com Web www.pss-polymer.com Polymer Standards Service-USA, Inc. 160 Old Farm Rd. Suite A Amherst | MA 01002 | USA

Phone +1 413 835-0265 +1 413 835-0354 Fax E-Mail pssusa@pss-polymer.com Web www.pss-polymer.com

DE00351346

5994-6306EN July 1, 2023



