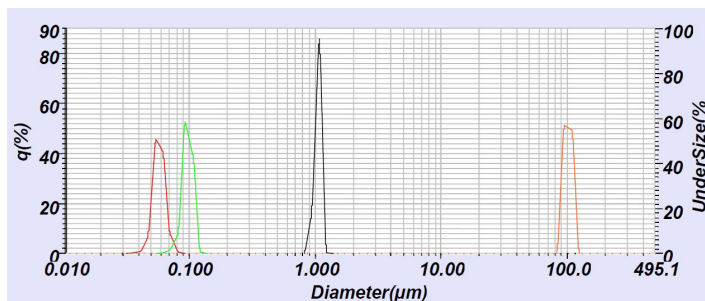


Measurement of PSL Standards on the LA-960 MiniFlow Accessory

Introduction

The MiniFlow option fills the need for a low volume (30-50 ml), solvent resistant pumping system for the LA-960. Certain materials may be too expensive or too difficult to produce in the quantity required by the standard circulation system. Additionally, the MiniFlow accessory is preferable for those applications where the generation of hazardous waste should be minimized. Internal ultrasonic treatment of the sample can also be included.

In order to qualify whether different pump systems have an effect on measurement results, a series of samples were tested on both systems to compare results. This report shows four mono-dispersed polystyrene latex (PSL) standards that were tested using the MiniFlow pumping system with excellent results.



Nominal	LA-960M
Mean, μm	Mean, μm
0.060 +/- 0.0027	0.058
0.097 +/- 0.003	0.098
1.020 +/- 0.022	1.034
102.0 +/- 1.4	101.5

Material source: Duke Scientific

Analytical Test Method

RI (particle): SINGLE-PSL

Form of Distribution: Manual, 1000

Dispersant fluid: Deionized water

Circulation speed: 3

Results

The data shows the excellent accuracy capabilities of the LA-960 with MiniFlow system, as well as the ability to resolve the difference between the two closely spaced standards.