

Certificate of Traceability

PIN: LS5000-20

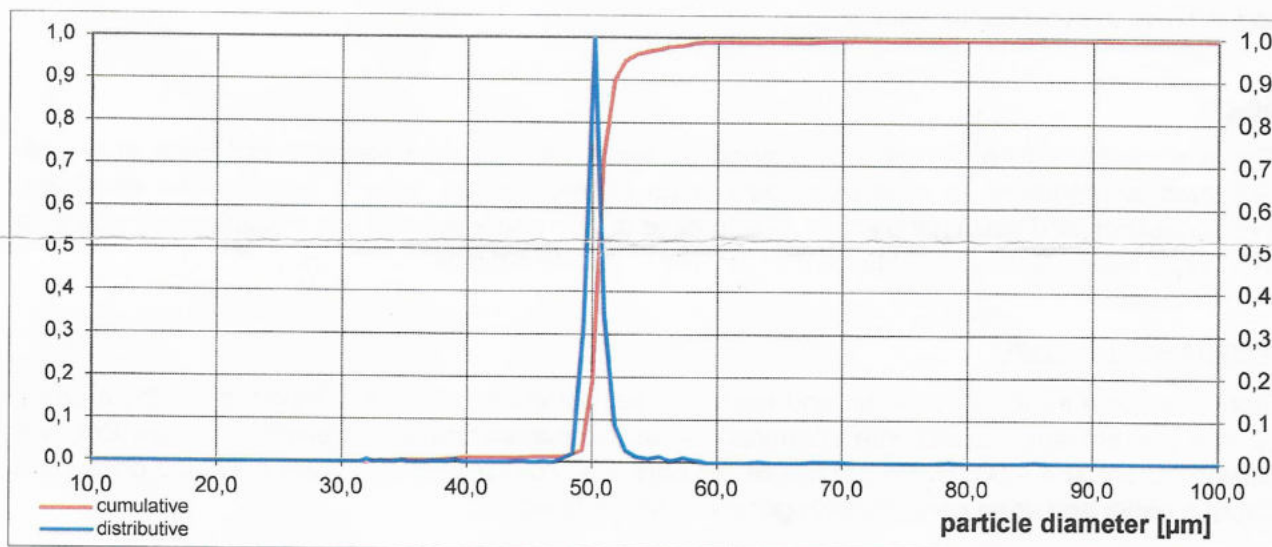


Particle size standard and count control – LS series

Size standard for the calibration and validation of particle counting and sizing instruments, traceable to the International System of Units (SI), including NIST traceability

Methods applied: Electrical Sensing Zone
Single Particle Optical Sizing
Analytical Differential Centrifugation
Optical Microscopy or Electron Microscopy

Nominal diameter: 50,0 μm
Certified mean diameter: 50,2 μm
Expanded uncertainty (k=2): 0,74 μm
Relative standard deviation (CV): 1,7 %
Number of particles ($\geq 25 \mu\text{m}$): 100.000 / mL $\pm 10 \%$



Product Data

Product Identification Number: LS5000-20
Material: Polymer particle suspension
Chemical composition: Polystyrene or poly(styrene-co-divinylbenzene), surfactants (< 0,1 %), preservatives (< 0,05 %)
Production lot number: LS567.202
Packaging lot number: LS567.2023
Packaging date: 28.03.2022
Expiration date: 31.03.2025

Signed:

A handwritten signature in blue ink, appearing to read "K. Eslahian".

Dr. Kyriakos Eslahian, CEO

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Physical Data

Nominal density:	1,05 g / cm ³
Refractive index:	1,59 @ 25 °C
Surface characteristics:	<i>Not applicable</i>
Parking area:	<i>Not applicable</i>

Application

For an optimal performance of this particle size standard, homogeneity of the particle distribution has to be ensured. To disperse the particles, gently invert the bottle several times, until no sediment is visible. Then hold the bottle in an ultrasonic bath for 30 seconds. Dispose the first drop prior to use in order to avoid contamination.

Safety

These products are to be used by trained personal only. Avoid inhalation and work in a well-ventilated environment. In case of aerosolization of this product, wear a suitable filter respirator. Avoid ingestion and wash hands after use. In case of skin contact, wash the contaminated skin area with ample water. Seek medical attention in case of accidental ingestion or inhalation.

Storage and Disposal

Store the bottle in upright position and keep well sealed when not in use. Never touch the dropper tip and prevent any contact with chemicals. Avoid contamination and prevent exposure to direct sunlight. Store at 4 – 30 °C. Do not freeze the particles. To dispose, evaporate the liquid phase and dispose bottle and dried contents with general laboratory waste.

Limited warranty

This product is to be used under laboratory conditions by trained scientific operators only. Incorrect use and handling can result in wrong measurements or unreliable data, in which case the certified properties may be lost. Deviations from recommended storage conditions or handling instructions can reduce the stability.

The analysis of measurement data as well as the determination of suitability for a specific application is the responsibility of the user. The warranty of the manufacturer is limited to replacement of defective products if returned with prior authorisation, within 60 days from delivery.