



# Particle Size Analyzer



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## TECHNICAL NOTE

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### About the Instrument

**Instrument Name**

Litesizer 500

**Manufacture**

Anton Paar GmbH, Austria

### Specifications

**Measurement Range**

0.3 nm – 10.0  $\mu$ m

**Measurement principle**

Dynamic light scattering (DLS)

**Accuracy**

Better than +/-2 % on certified reference material

**Repeatability**

Better than +/-2 % on certified reference material

**Sensitivity**

0.1 mg/ml (Lysozyme)

**Measurement angle**

15°, 90°, 175°

### Capability

Particle size/ Hydrodynamic diameter

## Sample requirement

<b>Sample type</b>	Liquid
<b>Sample quantity</b>	500 $\mu$ L - 1 ml
	Sample should be well dispersed in the solvent.

## Sample Limitations

Only those samples which are dispersed in suitable medium will be accepted for particle size analysis

## Analysis cost

<b>Academic</b>	<b>Industry</b>
Rs 500 / sample	Rs 1000 / Sample

## Sample Preparation

The sample should be dispersed in suitable medium using ultra sonication until it well dispersed.

<b>Expected particle size</b>	<b>Minimum concentration</b>
< 10 nm	0.5 mg/mL
10-100 nm	0.1 mg/mL
100 nm - 1 $\mu$ m	0.01 mg/mL
>1 $\mu$ m	0.1 mg/mL