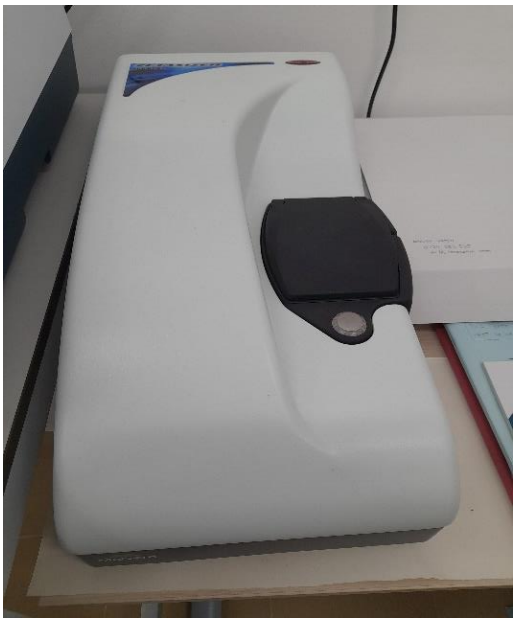
Equipment name:

Zetasizer Nano ZS90, ZEN 3690



Location

ICDI-SNA,

Advanced materials and applied technologies laboratory

Year 2020

Description

The Zetasizer Nano ZS90 model is equipped with a 4mW, 632.8 “red” laser and an optical system that have a 90º scattering detector angle for size measurements. The particle size measured in a Dynamic Light Scattering (DLS). Zeta potential is measured using a combination of the measurement techniques: Electrophoresis and Laser Doppler Velocimetry, sometimes called Laser Doppler Electrophoresis.

The Zetasizer Nano ZS90 provides the ability to measure three characteristics of particles or molecues in a liquid medium such as:

- particle size (0.3 nm to 5 µm);
- zeta potential (-100 to +100mV);
- molecular weight (342Da to $2x10^7$ Da);

Operating hours: 8-16

Information about the measurement, cost/services can be obtained from Prof. Dr. Lucian Baia, lucian.baia@ubbcluj.ro