

Study File Example

The Study File will vary depending on whether the study performed is a physico-chemical characterization, in vitro characterization, or in vivo characterization. The following sections provide examples of Study Files created from studies performed by the [Nanotechnology Characterization Laboratory \(NCL\)](#).

Physico-Chemical Characterization Studies

For physico-chemical characterization studies, the primary study sample is the nanoparticle or other small molecule.

Study File	Study Sample	Study Parameters	Supporting Information
s_size-DLS	Nanoparticle Sample	pH Concentration	Measuring the Size of Nanoparticles in Aqueous Solution using DLS Characterization of Nanoparticles for Therapeutics Dendrimer-Based MRI Contrast Agents

In Vitro Characterization Studies

For in vitro characterization studies, the primary study sample is the biospecimen. Nanoparticles or other small molecules administered to the biospecimen are considered factors in the study.

Study File	Study Sample	Characteristics	Study Factors	Supporting Information
cytotoxicity-LLCPK1	Biospecimen	Cell Type ATCC #	Nanoparticle Sample Concentration Time of Exposure	Hep G2 Hepatocarcinoma Cytotoxicity Assay Protocol Characterization of Nanoparticles for Therapeutics Dendrimer-Based MRI Contrast Agents



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