

# 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	<ul style="list-style-type: none"><li>Nanoparticle Sample </li></ul>	<ul style="list-style-type: none"><li>pH </li><li>Concentration </li></ul>	<ul style="list-style-type: none"><li>Measuring the Size of Nanoparticles in Aqueous Solution using DLS</li><li>Characterization of Nanoparticles for Therapeutics</li><li>Dendrimer-Based MRI Contrast Agents</li></ul>

## 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	<ul style="list-style-type: none"><li>Biospecimen </li></ul>	<ul style="list-style-type: none"><li>Cell Type </li><li>ATCC #</li></ul>	<ul style="list-style-type: none"><li>Nanoparticle Sample </li><li>Concentration </li><li>Time of Exposure </li></ul>	<ul style="list-style-type: none"><li>Hep G2 Hepatocarcinoma Cytotoxicity Assay Protocol</li><li>Characterization of Nanoparticles for Therapeutics</li><li>Dendrimer-Based MRI Contrast Agents</li></ul>



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