

# Experimental report

19/08/2019

**Proposal:** TEST-2741

**Council:** 10/2016

**Title:** Test on Ultra low crosslinked pNIPAM-based microgels

**Research area:**

**This proposal is a new proposal**

**Main proposer:** Andrea SCOTTI

**Experimental team:** Monia BRUGNONI  
Andrea SCOTTI

**Local contacts:** Ralf SCHWEINS

**Samples:** pNIPAM (C<sub>6</sub>H<sub>11</sub>NO)<sub>n</sub>  
D7-pNIPAM (C<sub>6</sub>D<sub>7</sub>H<sub>4</sub>NO)<sub>n</sub>

| Instrument | Requested days | Allocated days | From       | To         |
|------------|----------------|----------------|------------|------------|
| D11        | 1              | 1              | 13/02/2017 | 14/02/2017 |

**Abstract:**

With these experiments we have probed the form factors of ULC microgels and regular microgels both in diluted and concentrated suspensions. Part of these measurements have been included within the article published by Scotti et al. (Macromolecules 2019, 52, 3995–4007, DOI: 10.1021/acs.macromol.9b00729). Here below some of the form factors and the corresponding fits for 5 mol% crosslinked (a), ultra-low crosslinked and 5 mol% (b) crosslinked deuterated microgels (c).

