

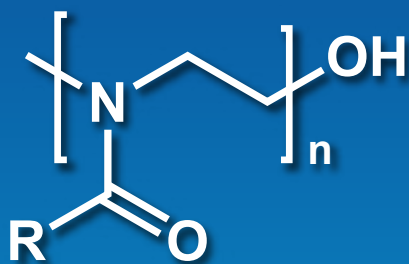
New

MATERIALS

LIFE SCIENCE



# Water-soluble Biocompatible Polymers Poly(2-oxazoline)s



R = CH<sub>3</sub> [P2506]

R = (CH<sub>2</sub>)<sub>2</sub>CH<sub>3</sub> [P2508]

## Advantages

- Biocompatible and non-immunogenic pseudo-polypeptide structure
- P2506 is more hydrophilic than poly(ethylene glycol) (PEG).
- P2508 transitions to a hydrophobic state in water when heated (Low Critical Solution Temperature (LCST) : ca. 25°C)

## Applications

### Surface Coating with Protein-repellent or Nonfouling Properties

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### Drug Delivery Systems

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### Thermoresponsive Material

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M. Mees, E. Haladjova, D. Momekova, G. Momekov, P. S. Shestakova, C. B. Tsvetanov, R. Hoogenboom, S. Rangelov, *Biomacromolecules* **2016**, *17*, 3580.

**ULTROXA<sup>®</sup> Poly(2-methyl-2-oxazoline)** (n=approx. 100)

200mg [P2506]

**ULTROXA<sup>®</sup> Poly(2-propyl-2-oxazoline)** (n=approx. 100)

200mg [P2508]

ULTROXA<sup>®</sup> is a registered trademark of Ghent University.

For further information please refer to our website at [www.TCIchemicals.com](http://www.TCIchemicals.com).

synthetic polymers



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