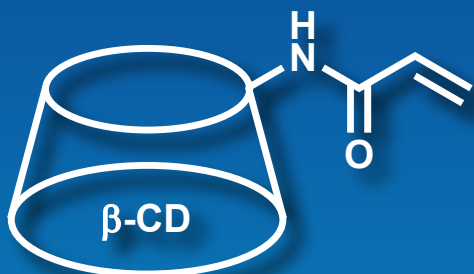


New

MATERIALS



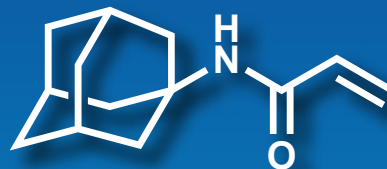
Wizard Monomer[®] for Supramolecular Polymer Gels



Wizard Monomer[®] CD

100mg / 500mg

[A3439]



Wizard Monomer[®] AD

500mg

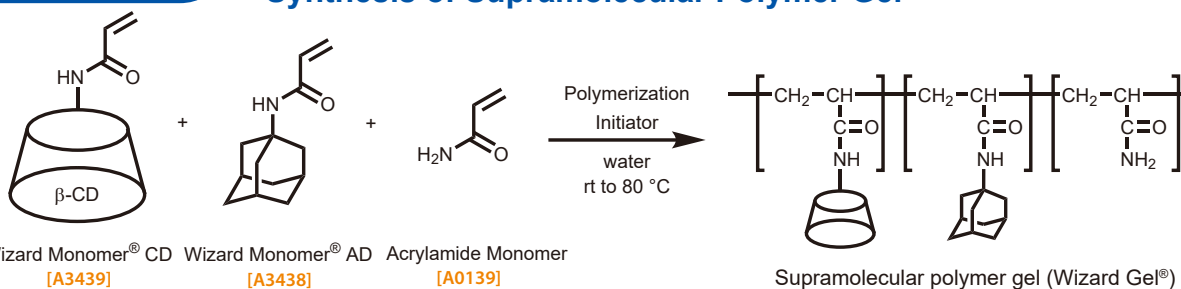
[A3438]

Advantages

- The coexisted cyclodextrin (CD) and adamantane (AD) moieties lead to supramolecular host-guest interactions.
- Polymerization of the acrylamide moieties forms self-healable polymer gels derived from the supramolecular interactions.

Applications

Synthesis of Supramolecular Polymer Gel



Properties of Supramolecular Polymer Gel

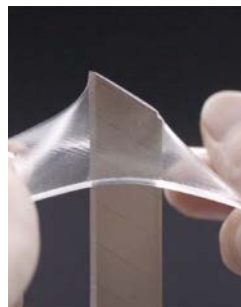
Self-healability



Stretchability



Toughness



Drought resistance



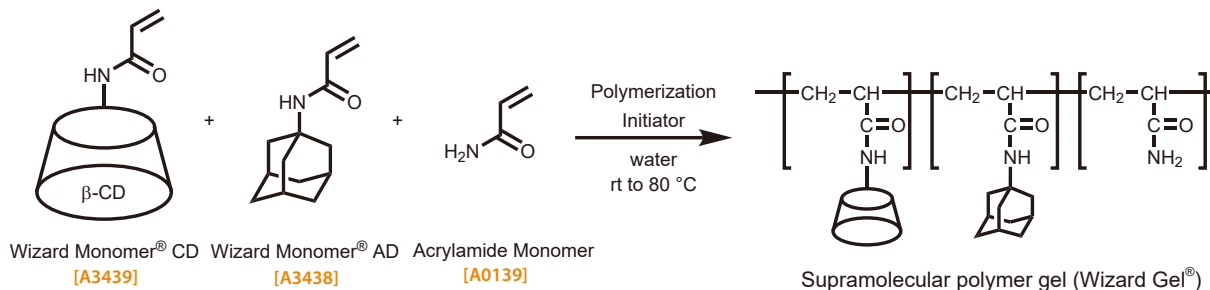
*Graphics were provided from YUSHIRO CHEMICAL INDUSTRY CO., LTD.

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Wizard Monomer® for Supramolecular Polymer Gels

Synthetic procedure of supramolecular polymer gel from Wizard Monomer®

Supramolecular polymer gel (Wizard Gel®) can be synthesized by the reaction of Wizard Monomer® CD, Wizard Monomer® AD, acrylamide monomer and polymerization initiator.¹⁾



1) Monomer mixing rate controls the properties of supramolecular polymer gel.

For more information, please visit the website of YUSHIRO CHEMICAL INDUSTRY CO., LTD.

<https://www.yushiro.co.jp/english/index.html>

Related Products

Acrylamide Monomer

25g / 500g [A0139]

Ammonium Peroxodisulfate

5g / 25g [A2098]

N,N,N,N-Tetramethylethylenediamine

25mL / 100mL / 500mL [T0147]

1-Hydroxycyclohexyl Phenyl Ketone

25g / 100g / 500g [H0617]

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