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Photopolymerized Water-soluble Maleilated Chitosan/Methacrylated Poly (vinyl alcohol) Hydrogels as Potential Tissue Engineering Scaffolds

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Highlights:

- Photocrosslinkable water-soluble maleilated chitosan and methacrylated poly (vinyl alcohol) were prepared.
- The MCS/MPVA hydrogels had fast gel-forming rate and improved compressive strength.
- The MCS/MPVA hydrogels had rapid absorbent capacity.

Abstract:

Photocrosslinkable water-soluble maleilated chitosan and methacrylated poly (vinyl alcohol) were synthesized and therefore maleilated chitosan/methacrylated poly (vinyl alcohol) (MCS/MPVA) hydrogels were prepared under UV radiation. Series of properties of the hydrogels including rheological property, swelling behavior,

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