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Declaration of Competing Interest


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Abstract

Superabsorbent hydrogels (SAH's) refer to hydrophilic polymer networks (organic or inorganic), that can absorb and retain huge amounts of water in their three-dimensional networks as high as 500–1500 g/g. Use of polysaccharides as backbone for synthesis of superabsorbent hydrogels has attracted substantial interest pertaining to their high hydrophilicity, non-toxicity, biodegradability, biocompatibility and natural origin that makes them suitable candidate for various applications such as drug delivery, soil conditioning, bio-sensing, food encapsulation, sustained release of fertilizers etc.. Their water absorbing and retaining properties can be controlled by the type of hydrophilic

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