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Title: Optimized synthesis of
O-carboxymethyl-N,N,N-trimethyl chitosan

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Highlights:

- Improved chitosan N-trimethylation through optimization of reaction time and solvent precipitation
- Improved chitosan O-carboxymethylation up to a degree of 80%, based on O-methyl-free N-trimethyl chitosan
- Cytocompatibility of the CMTMC chitosan derivative towards human fibroblasts

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