

Accepted Manuscript

Title: Versatile acid base sustainable solvent for fast extraction of various molecular weight chitin from lobster shell

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PII: S0144-8617(18)30962-7
DOI: <https://doi.org/10.1016/j.carbpol.2018.08.059>
Reference: CARP 13956

To appear in:

Received date: 18-4-2018
Revised date: 18-7-2018
Accepted date: 15-8-2018

Please cite this article as: Hong S, Yuan Y, Yang Q, Zhu P, Lian H, Versatile acid base sustainable solvent for fast extraction of various molecular weight chitin from lobster shell, *Carbohydrate Polymers* (2018), <https://doi.org/10.1016/j.carbpol.2018.08.059>

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Versatile acid base sustainable solvent for fast extraction of various
molecular weight chitin from lobster shell

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Highlights:

- Acid base deep eutectic solvent for one pot extraction of chitin from lobster shell.
- Various molecular weight of chitins were obtained.
- The ability of deproteinization and depolymerization of DES was related to acid used.
- The calcium carbonate was converted to levulinic acid calcium.

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