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## ACCEPTED MANUSCRIPT

Preparation of lycopene nanodispersions from tomato processing waste: Effects of organic phase composition

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## Highlights

- Lycopene was simultaneously extracted from waste and size reduced into nano-ranges
- The ultrasound assisted nano-precipitation technique was used
- Simplex centroid mixture design was applied to optimize the organic phase composition
- The optimum lycopene nanoparticles were physically stable during 4-week storage
- The lycopene content of optimum product was decreased by a first order kinetic model

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