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Mechanical Strength of Microspheres Produced by Drying of Acoustically Levitated Suspension Droplets

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Highlights

- Drying experiments of suspension droplets by means of acoustic levitation.
- Microsphere formation at different mass of suspended and dissolved lactose.
- Hardness tests of individual microspheres.
- Study of kinetics of single droplet drying with relevance for industrial processes.

Abstract

Spray drying is widely used in pharmaceutical manufacturing to produce microspheres from solutions or suspensions. The mechanical properties of the microspheres are reflected by the morphology formed in the drying process. In suspension drying, solids dissolved in the

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