

### Simple approach to generate microcapsule using phase separation on the micromold

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Microcapsules are widely used in many applications such as cosmetic, drug, food industry. However, in conventional approach to generate the microcapsule, there are limitations. They need complicate and difficult procedure. Herein we present simple approach to generate the microcapsule on the micromold. We separate one droplet with two compartment using phase separation and synthesize the microcapsule under UV irradiation. It can be selectively polymerized within monomer -rich phase. We observe that experimental parameters such as concentration of monomer and type of solvent can control formation of the microcapsule. We expect that this approach can provide a useful template for the drug delivery system