

ABSTRACT

Provided herein is a method for preparing microcarrier particles, comprising the steps of allowing the dispersed phase liquid flow through a multi-hole plate at a low temperature to form liquid microspheres in a continuous phase, and enabling a synthetic polymer and/or natural biological macromolecules within the liquid microspheres to be subject to a curing reaction at a low temperature to form particles. Further provided herein are the method for preparing an emulsion and an apparatus and process system for preparing microcarrier particles, which can be used for preparing emulsions and microcarrier particles on a large scale.