

Peptidosomes

Peptidosomes can be generated in a simple manner:

1. Start by producing a 1mM solution of Fmoc-FF in water.
2. Adjust the pH of the solution to 10.5; NaOH can be used for this.
3. Vortex until a clear solution is obtained.
4. Deposit a droplet (with the desired volume) of the solution onto an ultra-hydrophobic surface.
5. Expose the droplet to gaseous CO₂ for 10 minutes.
6. The peptidosome can now be transferred by dipping it into water or broth.

To follow the drop of the pH and give color to the Peptidosomes facilitating their visibility, a pH indicator (cresol red) was added. A switch in the color of the droplet from red/violet to yellow indicates that the pH has dropped, triggering the self-assembly of Fmoc-FF to form the membrane of the Peptidosome.