

Stability of Alginate Microspheres in Acidic Environment

Aim of experiment

Test of the stability of Alginate Microspheres in $\text{HCl}_{(\text{aq})}$ at pH 1.

Material

- 10 mM MgSO_4
- HCl 25%
- Alginate Microspheres with known diameter
- IBIDI μ -Slide with 8 chambers (Cat. No: 80826)
- Nikon Ti2

Procedure

1. Adjust the pH of the MgSO_4 to 1 with HCl
2. Resuspend Alginate Microspheres in the MgSO_4 solution
3. Add 250 μl of this suspension into IBIDI μ -slide
4. Monitor the Microsphere diameter for several hours