CLAIMS

1. A process for culturing microorganisms of the genus *Chlorella* in reactors in a culture medium suitable for their growth, characterized in that the culture medium comprises a flocculating agent selected from iron chloride and zinc chloride in an amount ranging from 50 to 450 mg/L to prevent adhesion of the microorganisms to the walls of the reactors in which the culture is carried out.

2. The process according to claim 1, characterized in that the flocculating agent is added to the culture medium at the beginning of the culture and maintained until the end of the culture.

3. The process according to one of claims 1 to 2, characterized in that the reactor is a carbon sink.

4. The process according to one of claims 1 to 3, characterized in that the culture is carried out in autotrophic mode or in mixotrophic mode and the reactor comprises at least one wall transparent to light.

5. The process according to claim 4, characterized in that the light- transparent wall is polymethyl methacrylate (PMMA), polyvinyl chloride (PVC), polyethylene (PE) or polycarbonate.

6. Use of a flocculating agent selected from iron chloride and zinc chloride in a culture medium for the culture of microorganisms of the genus *Chlorella* in reactors to prevent the adhesion of said microorganisms to the walls of the reactors in which the culture is carried out.