

Separation and Purification Processes

Code: 100959
ECTS Credits: 6

Degree	Type	Year	Semester
2500253 Biotechnology	OB	3	1

Contact

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Use of languages

Principal working language: catalan (cat)
Some groups entirely in English: No
Some groups entirely in Catalan: Yes
Some groups entirely in Spanish: No

Teachers

Xavier Garcia Ortega

Prerequisites

It is recommended to have the foundations of bioprocess engineering achieved

Objectives and Contextualisation

The study of the different separation processes used in biotechnology, its theoretical basis, the dimensioning of the equipment and the development of the strategies and the sequences to be applied according to the product to obtain.

Content

1. Introduction.
2. Filtration.
3. Centrifugation and sedimentation.
4. Cell disruption.
5. Liquid-liquid extraction.
6. Adsorption.
7. Chromatography.
8. Membrane separation processes.
9. Precipitation.

10. Crystallization.

11. Drying.