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Selection and application of nontoxic solvents in extractive ethanol fermentation

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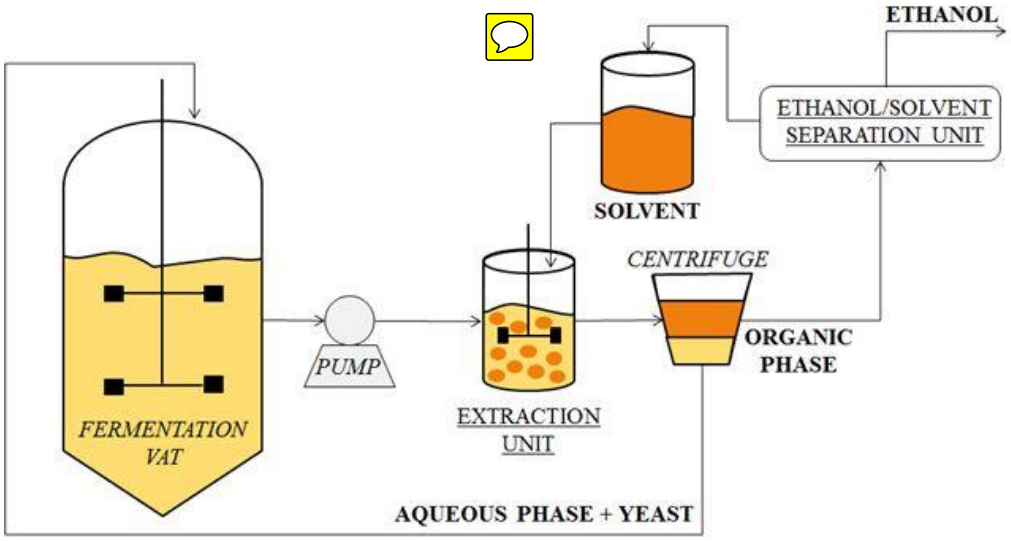
Graphical abstract



Highlights

- Lower ethanol concentrations reduce its inhibitory effect on yeast cells
- Extractive fermentation is an alternative technique to reduce ethanol inhibition
- Solvent biocompatibility is the most important criterion in extractive fermentation
- Extractive fermentation presented higher ethanol volumetric productivity