

Table S1. Grid Independency Study

Type of grid	No. of nodes	No. of cells	CPU time, min, RAM 4 GB	Total iteration	Time taken per iteration, sec	m_{Expt.} x 10⁰⁸ kg/s	m_{CFDX} 10⁰⁸ kg/s	% error
Coarse	7459	35290	5	135	2.22	664	602	9.33
Fine	45943	236995	18	362	2.98	664	624	6.02
Finer	145794	751545	30	585	3.07	664	622	6.32

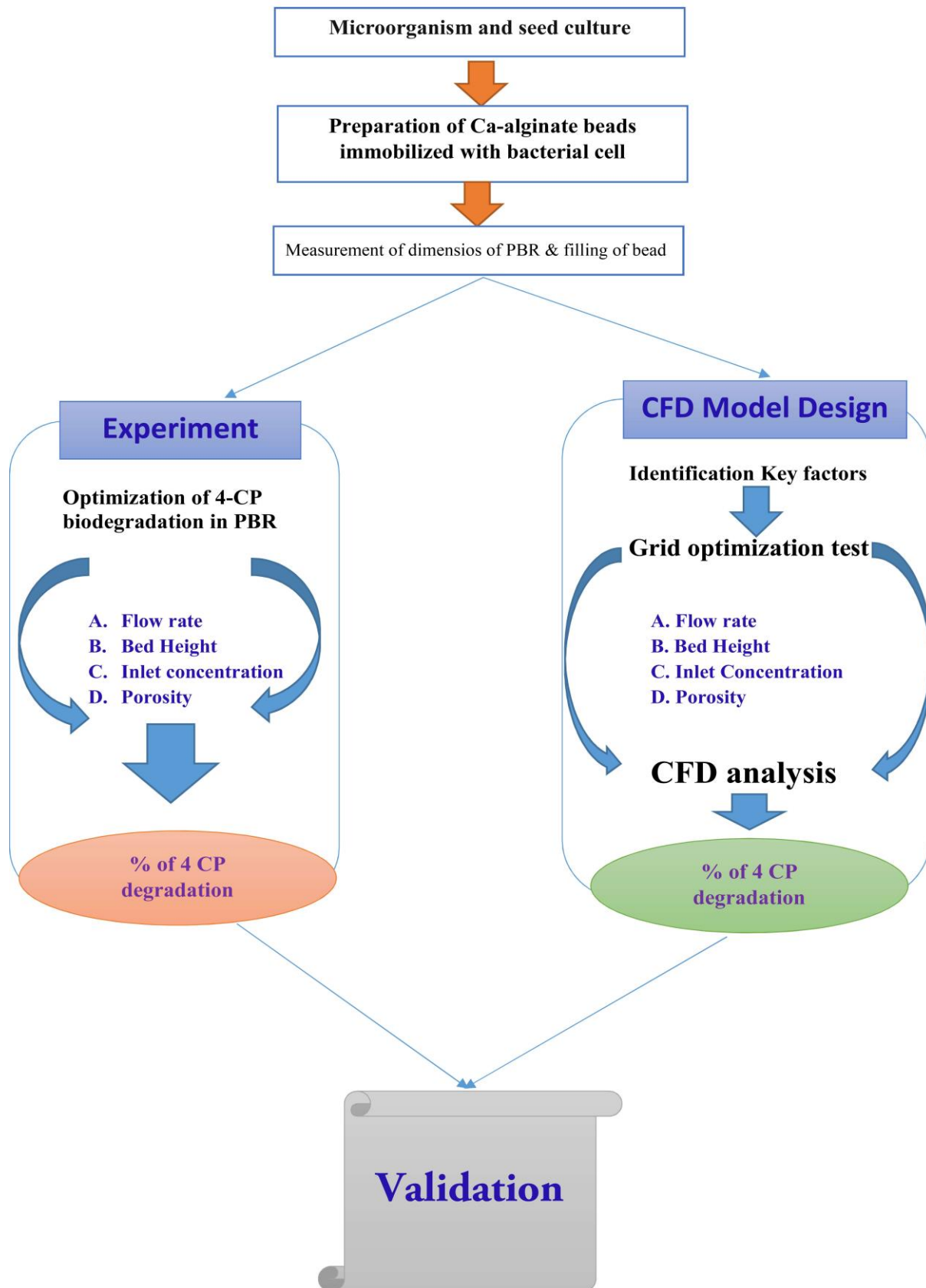


Fig. S1. Process flowchart of 4-CP degradation in immobilized catalysed packed bed reactor.