
Bioreactor Scale Up And Oxygen Transfer Rate In Microbial

successful scale-up of industrial fermentations: process ... - successful scale-up of industrial fermentations: process development, engineering and economics by edi d. eliezer principal bioprizm* * now sr. v.p. conagen inc. key factors for bioprocess technology selection, scale-up and engineering of new facilities ... bioreactor type & scale-up ... **piloting bioreactors for agitation scale-up** - variables as a function of scale, for a nominal oxygen transfer rate (otr) of 200 mmol/l-h. this table is not designed to represent a specific set of experimental data. instead, it is calculated based on "average" air-water cor-relations, and is intended to show how the p/v and u_s will tend to vary upon scale-up if effort is not made to ... **improving biopharmaceutical process scaleup & tech transfer** - very similar to that of the bench-scale bioreactor and will therefore be much more likely to behave as they did in the scale-down bioreactors. the literature shows that many methods of scale-up have been considered, including matching power/volume, impeller blade tip speeds, bulk mixing reynolds numbers and bulk mixing times. **the scale-up of microbial batch and fed-batch fermentation ...** - 1 the scale-up of microbial batch and fed-batch fermentation processes. christopher j. hewitt1* and alvin w. nienow2 1department of chemical engineering, university of loughborough, leicestershire, le11 3tu, uk. 2department of chemical engineering, the university of birmingham, edgbaston, birmingham b15 2tt, uk. **comparative studies on scale up methods of single use ...** - by maintaining a scale-up constant including gassed power to volume or shear, an almost constant kla was achieved during scale-up from 50 to 2000 l. using the scale-up constant pg/v resulted in statistically higher kla values at greater reactor volumes. mixing times were revealed to be significantly **fed-batch bioreactor process scale-up from 3-l to 2,500-l ...** - scale-up strategy instead of taking a direct scale-up from the 3-l scale to the 2,500-l scale, a more conservative approach was taken that involved several intermediate steps of volume increases. in the first step, the process was scaled-up from the 3-l bioreactor to the 75-l bioreactor. this was followed by the

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