

Appendix 1

Table: Comparison of power input for production of some antibiotics in airlift and stirred tank bioreactor

Antibiotics	Microorganism used	Bioreactor used	Power input (kW/m³)	References
Penicillin	<i>Pencillium crysogenum</i>	Stirred Tank Reactor	4-5	[Schügerl, 1990]
		Airlift Tower Loop Reactor	<1	
Cephalosporin-C	<i>Cephalosporium acremonium</i>	Stirred Tank Reactor	3	
		Airlift Tower Loop Reactor	1	
Bacitracin	<i>Bacillus licheniformis</i>	Stirred Tank Reactor	4.85	[Gavrilescu <i>et al.</i> , 1993]
		Airlift Reactor with mechanical foam breaker	4	
Nystatin	<i>Streptomyces noursei</i>	Stirred Tank Reactor	6.4	[Gavrilescu <i>et al.</i> , 1998]
		Airlift Reactor	5.6	