

简报

降烟碱细菌室内发酵条件研究初报

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摘要 通过对12种发酵培养基和不同温度、pH、培养时间下细菌生长能力和降烟碱能力的测定, 初步筛选出适宜4# 菌株生长的培养基为11号培养基, 在5号、7号、9号培养基中降烟碱能力强; 适宜9#菌株生长的培养基为8号培养基, 在7号、9号、11号、12号培养基中的降烟碱能力较强。适宜4#和9#的培养条件分别为30℃、pH 6.5、48h和35℃、pH 6.5、56h。

关键词 [烟碱降解](#) [细菌](#) [培养条件](#)

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Preliminary Study on Indoor Fermentation Conditions of Nicotine Degradation Bacteria

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Abstract

Effects of 12 fermentation media, different temperatures, pH values and culturing durations on nicotine degradation bacteria 4 # and 9# strains were studied. The results showed that medium 11# was suitable for strain 4# growth; while medium 5#, medium 7# and medium 9# were suitable for its nicotine degradation; Medium 8# was suitable for strain 9# growth, and media 7#, 9#, 11# and 12# were suitable for its nicotine degradation; Suitable culturing condition for strain 4 # was 30℃, pH 6.5 for 48h and it was 35℃, pH 6.5 and 56h for strain 9#.

Key words [Nicotine degradation](#) [Bacteria](#) [Culturing conditions](#)

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