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## 生物法降解养殖场臭气中H2S的反应器启动

Start-up of a reactor for biodegradation of  $\mathrm{H}_2\mathrm{S}$  from livestock farms

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中文关键词: 养殖场臭气 填料 污泥驯化 挂膜

英文关键词: odor of livestock packing domesticating active sludge hanging membranes

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中文摘要:

畜禽养殖场臭气成分复杂,完全去除较为困难。生物法是目前应用较广泛的脱臭方法,其中能否将生物膜附着在填料上是影响生物法去除恶臭气体效率的重要因素。本实验采用定时定量投加Na<sub>2</sub>S的方式驯化活性污泥,并选用MLSS浓度和SO<sup>2-</sup>4浓度增量变化2个指标作为污泥驯化成熟的指标,比传统的以MLSS作为污泥驯化成熟的指标更准确。采用循环污泥的挂膜方式,运行2 d后,通入新鲜的空气和H<sub>2</sub>S气体,2周后反应器启动成功。

## 英文摘要:

In general the composition of the odor derived from the livestock farm is very complex, so it is difficult to remove the odor efficiently. The biological technique is widely used for the deodorization due to its high efficiency. Whether the biofilm can be attached to packing is an important factor for biological removal efficiency of  $H_2S$ . In this paper, the way of domesticating active sludge was to add quantitative  $Na_2S$  to nutrient solution in fixed time, and the value of MLSS and the  $S0^{2-}_{4}$  concentration as the targets for the effect of domesticating active sludge, which were easier to obtain, and more accurate than MLSS value as acclimation targets traditionally. The bio-filter was operated by sludge circulation for two days, then the fresh air and the hydrogen sulfide were introduced into the bio-filter for two weeks, the bio-membrane of reactor was enough to remove the hydrogen sulfide.

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