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### 具抗肿瘤活性中度嗜盐菌YIM 80186的分离和系统发育分析

陈义光<sup>1,2</sup>, 姜怡<sup>1</sup>, 崔晓龙<sup>1</sup>, 李文均<sup>1</sup>, 唐蜀昆<sup>1</sup>, 文孟良<sup>1</sup>, 姜成林<sup>1</sup>, 徐丽华<sup>1</sup>

1. 云南大学云南省微生物研究所, 云南省生物资源保护与利用重点实验室, 云南, 昆明, 650091;

2. 吉首大学生, 物资源与环境科学学院, 湖南, 吉首, 416000

Isolation and phylogenetic analysis of one moderately halophile YIM 80186 with strong anticancer activity

CHEN Yi-guang<sup>1,2</sup>, JIANG Yi<sup>1</sup>, CUI Xiao-long<sup>1</sup>, LI Wen-jun<sup>1</sup>, TAN Shu-kun<sup>1</sup>, WEN Meng-liang<sup>1</sup>, JIANG Cheng-lin<sup>1</sup>, XU Li-hua<sup>1</sup>

1. Key Laboratory for Conservation and Utilization of Bio-resources, Yunnan Institute of Microbiology, Yunnan University, Kunming 650091, China;

2. College of Bio-resource Environment & Science, Jishou University, Jishou 416000, China

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**摘要** 从青海盐碱土壤样品中分离到1株中度嗜盐放线菌YIM 80186,该菌株的代谢产物具有很强的抗肿瘤和抗菌活性.菌株YIM 80186在添加20~100 g/L NaCl的培养基上生长良好,而在未添加NaCl的多数培养基上生长微弱.最高能耐受200 g/L NaCl.气生菌丝和基内菌丝丰富,白色至黄白色.气生菌丝产生直的或弯曲的孢子链,基内菌丝发育良好,断裂.生长pH范围6.0~10.0,最适pH 7.5~8.0.通过对对其进行的包括形态、生理生化特性、细胞化学以及基于16S RNA基因序列的系统发育分析等方面的研究,该菌株具有拟诺卡氏属的典型特征,初步鉴定其为拟诺卡氏菌属的1个潜在新种.

**关键词:** 拟诺卡氏菌属(*Nocardiopsis*) 16S RNA基因 系统发育分析

**Abstract:** One moderate halophile YIM 80186. The metabolite of the YIM80186 has strong anticancer activity. Strain YIM 80186 grew well on most tested media containing with 20-100g/L NaCl, but it grew weakly without NaCl supplement. The strain YIM 80186 can produce abundant white vegetative hyphae and aerial hyphae. Vegetative hyphae were developed well and fragmentated. The aerial mycelium produced straight to flexuous spore chains. The toleration of NaCl is 200g/L. When the pH range is in 6.0-10.0 the hyphae can grow. The optimum pH rarga is in 7.5-8.0. Based on the polyphasic studies, including its morphology, physiological and biochemical characteristics, chemotaxonomy and phylogenetic analysis by using 16S rDNA sequence comparison, YIM 80186 was primarily identified as a new potential species of the genus *Nocardiopsis* genus.

**Key words:** *Nocardiopsis* 16S RNA gene phylogenetic analysis

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电话：0871-5033829(传真) 5031498 5031662 E-mail: yndxxb@ynu.edu.cn yndxxb@163.com