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Isolation and Characterization of Lipopeptide Biosurfactant from *Bacillus* sp. 911-5

Sang-Cheol Lee, Sun-Hee Kim, Joo-Soon Yoo, Soo-Yeol Chung¹,
Woo-Hong Joo² and Yong-Lark Choi

Dept. of Biotechnology, Faculty of Natural Resource and Life Science,
Dong-A University, Busan

¹Dept. of Food Science & Nutrition, Dong-Ju College, Busan

²Dept. of Biology, Chang-Won National University, Changwon

The *Bacillus* sp. 911-5 was isolated from soil sample. The bacterium had a marked tributyrin degrading activity as visualized by the clear zone developed around the colony after 24 hour incubation of 37°C. The surface tension of the culture filtrate of *Bacillus* sp. 911-5 was decreased to 30mN/m. The crude biosurfactant was purified by procedure that included conc. HCl precipitation and methanol treatments. The crude biosurfactant was reduced the surface tension of water from 72mN/m to 35mN/m at a concentration of 4.3mg/L. It was analyzed by thin-layer chromatography(TLC) on silica gel plates developed with on chloroform/methanol/water(65/25/4) and SDS-PAGE. The biosurfactant was extracted by SDS-PAGE and it was observed single spot to TLC plate. It was inhibited the growth of plant pathogenic fungus, *R. solani*.