***Streptomyces sp.* STRAIN AND COMPOSITION OF ANATAGONISTIC ACTIVITY AND THE USE THEREOF**	
Offering Organization:	Centro de Investigación y Asistencia en Tecnología y Diseño del Estado de Jalisco, A.C.
Type of Organization:	Public Research Center
Development Stage:	Commercial Concept Tests
Desired Relationship:	– Technological research and development financing (technological partner) – Specialized application tests – Creation of a new company (Joint Venture) for the commercialization of the products outlined herein – Licensing of patents
Sector:	Agriculture
Area of knowledge:	Agricultural Biotechnology
Key words:	*Streptomyces sp,* antagonistic activity, phytopathogenic fungi

DETAILED DESCRIPTION:

Problem to be solved:

In recent decades, agricultural production worldwide has become increasingly dependent on agrochemicals as a reliable method of protecting crops. However, the increased use of these products in the field has generated substantial negative effects such as the emergence of chemically-resistant pathogenic strains, and a negative impact on the environment, on farmers and on consumers of agricultural products. Many countries have become increasingly aware of the problems associated with using chemical pesticides indiscriminately. Hence, work has been done in the search for alternative methods in order to control diseases in plants and reduce the negative effects of chemical products.

Solution:

The present invention describes and claims a new strain of the bacteria *Streptomyces sp* called CACIS-1.16CA, which is capable of inhibiting the growth of phytopathogenic fungi that affect various horticultural crops. Said *Streptomyces* strain was isolated from soil in the state of Campeche, Mexico, specifically in the town of Calkini.

New and Innovative Aspects:

– The *Streptomyces sp* strain is capable of exhibiting activity against pathogens, primarily plant-pathogenic fungi.

TECHNICAL CHARACTERISTICS:

The present invention describes and claims a *Streptomyces sp* strain with access number NRRL B-50597. It exhibits antagonistic activity against phytopathogenic organisms superior to other similar strains and defends against a wide range of bacteria and phytopathogenic fungi that affect crops of agricultural interest, particularly horticultural crops.

Main advantages derived from its utilization:

– The use of these strains helps to significantly reduce the use of chemical fertilizers and pesticides, which can generate resistance in plant-pathogenic fungi and considerably damage the environment and human health.

Applications:

- In the agricultural sector
- Food security
- Environmental Safety

INTELLECTUAL PROPERTY

- Patent filed in 2011
- MX/a/2011/013044
- Divisional Application: MX/a/2012/005834

ABOUT THE OFFERING ORGANIZATION

Presentation:	El Centro de Investigación y Asistencia en Tecnología y Diseño del Estado de Jalisco, A.C. (CIATEJ) is a public research center that belongs to the national technology development and innovation network, the National Council for Science and Technology (CONACyT). CIATEJ is focused on the agricultural, food, health, and environmental sectors with an emphasis on the application of innovative biotechnology.
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