***Streptomyces sp.* STRAIN FOR BIOLOGICAL CONTROL, ITS CONTAINING COMPOSITION AND 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,* biological control, antagonistic activity, phytopathogenic fungi

DETAILED DESCRIPTION:

Problem to be solved:

Plagues affecting plants are among the most important biotic agents that cause serious losses and damage to agricultural products. Therefore, these infestations need to be controlled to ensure the production of food provided by the fields. Historically, cultivation and agronomic practices have often utilized the application of chemicals to control various plagues. However, the environmental pollution caused by the excessive use of agrochemicals has led to a change in attitude towards their use.

Solution:

The present invention describes and claims a new strain of the bacteria *Streptomyces sp* called CACIA-1.46HGO, 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 Hidalgo, Mexico, specifically in the town of Mineral del Monte.

New and Innovative Aspects:

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

TECHNICAL CHARACTERISTICS:

The present invention describes and claims a *Streptomyces sp* strain with access number NRRL B-50596 to be used as a biological control with antagonist activity against pathogens. It is superior to other similar strains.

Main advantages derived from its utilization:

– The use of this strain 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 medical-pharmaceutical field

INTELLECTUAL PROPERTY

– Patent filed in 2011 – MX/a/2011/013045 – Divisional Application: MX/a/2012/005836	
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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