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## Isolation And Characterization Of Phytotoxic Pounds

Laccase is the industrially important enzyme which is widely present in the nature. It play important role in paper and pulp industry, textile industry, synthetic chemistry, cosmetics, soil bioremediation and biodegradation of environmental phenolic pollutant. It is important because it oxidizes both the toxic and nontoxic substrates. Laccases producing bacteria have been isolated and identified by 16s RNA. Laccases genus were identified in *Pseudomonas putida* and *Bacillus licheniformis*. Laccase are used in dechlorination process.

Laccase Producing Bacteria



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## Isolation and Characterization of Laccase Producing Bacteria



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## **1. Isolation and Characterization of Phytotoxic pounds**

Natural products produced by microorganisms have been utilized as sources of new drugs possessing a wide range of agrochemical and pharmacological activities. During our research on Actinomycetes from Brazilian mangroves, the ethyl acetate extract of Streptomyces sp. AMC 23 isolated from the red mangrove (*Rhizophora mangle*) rhizosphere produced a highly active compound against the microalga ...

## **2. Isolation and Characterization of Phytotoxic**

**Isolation and Characterization of Phytotoxic** Compounds. ... Th e pro ductio n of these com **pound** s is restr ict ed to. spe cifi c group s of micro or gan isms which have unus ual chem ica l st ruc ...

## **3. Isolation and characterization of phytotoxic compounds**

The **isolation**, chemical **characterization and** biological activity of two **phytotoxic** metabolites of *Phomopsis helianthi* Muntâ€•Cvet et al. is reported. These compounds were identified by spectroscopic me...

#### 4. Isolation and characterization of phytotoxic

**Phytotoxic** Activity of Dihydroxymelleins Trans-**and** cis-4,6-dihydroxymelleins showed **phytotoxic** activity towards sunflower. In particular, with the leaf puncture test, typical brown necrotic lesions developed on sunflower leaves within 3 days of incubation, with minimum effective doses at 76 and 135 mg per spot for trans-**and** cis-4,6 ...

#### 5. Isolation and characterization of phytotoxic compounds

**Isolation and characterization of phytotoxic** compounds from asparagus (*Asparagus officinalis* L.) roots

#### 6. Isolation and characterization of phytotoxic compounds

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#### 7. Isolation and characterization of phytotoxic compounds

The **isolation**, chemical **characterization and** biological activity of two **phytotoxic** metabolites of *Phomopsis helianthi* Munt-Cvet et al. is reported. These compounds were identified by spectroscopic methods (UV, IR, <sup>1</sup>H and <sup>13</sup>C NMR, and MS) as trans-4,6-dihydroxymellein (trans-3-methyl-4,6,8-trihydroxy-3,4-dihydroisocoumarin) and cis-4,6 ...

#### 8. Isolation and characterization of phytotoxic compounds

**Isolation and characterization of phytotoxic** compounds from asparagus (*Asparagus officinalis* L.) roots. Hartung AC(1), Nair MG, Putnam AR. Author information: (1)Department of Horticulture and Pesticide Research Center, Michigan State University, 48824, East Lansing, Michigan.

#### 9. Isolation and partial characterization of phytotoxic

**Phytotoxic** compounds obtained from methanol extracts of field-grown lantana (*Lantana camara* L.) were quantified in terms of their inhibition of ryegrass (*Lolium multiflorum* Lam.) seed germination **and**/or seedling growth. Subsequent partition of the aqueous fraction (derived from drying the MeOH extract in vacuo and redissolving in distilled water) at various pHs with solvents of differing ...

#### 10. Isolation and Characterization of a New Phytotoxic

**Isolation and Characterization of a New Phytotoxic Molecule** from Culture Fluids of *Verticillium Dahliae* . By Hassan Laouane, My Hassan Sedra & Hassan B. Lazrek . M.D. University, India . Abstract- The *verticillium dahliae* liquid culture was extracted with butanol. The BE was able to

#### 11. Isolation characterization and activity of phytotoxic

**Isolation, characterization and activity of phytotoxic** compounds from quackgrass [*Agropyron repens* (L.)Beauv]. Weston LA(1), Burke BA, Putnam AR. Author information: (1)Department of Horticulture and Landscape Architecture, University of Kentucky, 40546, Lexington, Kentucky. Previous experiments showed that legumes grown in the presence of ...

#### 12. Isolation characterisation and identification of

**isolation**, counting and identification of bacteria. Depending on the taxonomic level desired, several phenotypical or molecular methodologies (polyphasic analysis) can be used for **isolation**, characterisation and identification of lactobacilli. Recent meth-odologies, which are culture-independent such as single strand conformation poly-

#### 13. Phytotoxicity

Phytotoxicity is defined as a delay of seed germination, inhibition of plant growth or any adverse effect on plants caused by specific substances (phytotoxins) or growing conditions (WRAP, 2002).In chemical research it is possible to determine a number of important parameters and also to indicate certain dangers with respect to plant growth.

#### 14. Isolation purification and characterization of a

**Isolation and** purification of the phytotoxin from in vitro and in vivo of *C. andropogonis* The **phytotoxic** activity was found to be present in the deproteinized

culture filtrate and aqueous fraction after solvent extraction with chloroform and diethyl ether. The solvent extracts did not contain any **phytotoxic** activity.

### **15. Isolation and partial characterization of phytotoxic**

**Isolation and partial characterization of phytotoxic** compounds from lantana (*Lantana camara* L.). Achhireddy NR(1), Singh M, Achhireddy LL, Nigg HN, Nagy S. Author information: (1)Institute of Food and Agricultural Science Citrus Research and Education Center, University of Florida, 700 Experiment Station Road, 33850, Lake Alfred, Florida.

### **16. Isolation and phytotoxicity of a metabolite from**

110 Ann Appl Biol 152 (2008) 103-111 Â<sup>a</sup> 2007 The Authors Journal compilation Â<sup>a</sup> 2007 Association of Applied Biologists S.-J. Jiang et al. **Isolation and phytotoxicity of a,b-dehydrocurvularin** Roberson D.J., Strobel G., Strange R.N. (1985) The identification of a major **phytotoxic** ...

### **17. Chromatographic purification and characterization of**

The yields of the purification of the **phytotoxic compounds** cryptogein (Gcy 52, 192), cinnamomin (GcI 127) and capsin (Gca 147) are shown in Table I. Chemical **characterization of the elicitors** No sugar or phosphate could be detected in the elicitors; they displayed a positive ninhydrin reaction after acid hydrolysis.

### **18. Isolation and partial characterization of a phytotoxic**

Volume 138, number 2 FEBS LETTERS February 1982 **ISOLATION AND PARTIAL CHARACTERIZATION OF A PHYTOTOXIC GLYCOPEPTIDE FROM A PROTEIN-LIPOPOLYSACCHARIDE COMPLEX PRODUCED BY A POTATO ISOLATE OF VERTICILLIUM DAHLIAS** Virginia BUCHNER, Abraham NACHMIAS\* and Yigal BURSTEIN Department of Organic Chemistry, Weizmann Institute of Science, Rehovot and 'Division of Plant Pathology, Agricultural Research ...

### **19. Isolation and identification of polystyrene**

**Isolation and identification of polystyrene biodegrading bacteria from soil.** ... Their high polyphenol, lipid and organic acid concentrations turn them into

**phytotoxic** wastes.

## 20. Isolation and Characterization of Phytoconstituents from

Extraction and **isolation** 109 8.3. **Characterization of** isolated compounds from the root of *S. tomentosum* 110 8.3.1. Triterpenoids 110 8.3.2. Cardenolides 114 8.3.3. Pregnane glycosides 119 8.3.4. Lignane 120 9. Investigation of bioactive constituents from *Curcuma comosa* Rhizome 121 9.1. Plant material 121 ...

## 21. Isolation and partial characterization of a phytotoxic

*Rhynchosporium secalis* (Oud.) Davis produces a **phytotoxic** compound with a mol. wt of 275Å—103 which is able to induce chlorotic symptoms in both susceptible and resistant barley leaves. Collectively, the data suggest that the toxin is a glycoprotein. Mild base treatment, by  $\hat{I}^2$  elimination, indicates that threonine and serine are involved in o-glycosidic linkages with the carbohydrate moiety.

## 22. Isolation and Partial Characterization of Phytotoxins

**Isolation and Partial Characterization of Phytotoxic** Mycotoxins Produced by *Sclerotinia* sp., a Potential Bioherbicide for the Control of White Clover (*Trifolium repens*) Article Mar 2004

## 23. Bioguided fractionation and isolation of phytotoxic

The **phytotoxic** activity of celery (*Apium graveolens* L.) was tested on germination and seedling growth of *Lactuca sativa* (lettuce). Bioactive compounds were isolated and identified by spectral data. Methanol extract of celery aerial part showed a significant **phytotoxic** effect on lettuce.

## 24. Volume 138 number 2 FEBS LETTERS February 1982 ISOLATION

**Phytotoxic** PLP, produced by an isolate of *V. dahliae* which is pathogenic for potato, can break down to low M r peptidic material under non-dissociating conditions [4]. We now report the **isolation of** a 3000-M r glycopeptide that retains essentially all of the toxic activity of the PLP from which it derived. A

## 25. Isolation and characterization of phosphate



**Isolation and characterization of** plant growth-promoting rhi- ... The **phytotoxic** effect was more in Z. mays compared to other three seeds analyzed for this study. The ClO 4- compound was ...

## 26. Polyphenols as fungal phytotoxins seed germination

Cabras A, Mannoni MA, Serra S et al (2006) Occurrence, **isolation, and** biological activity of **phytotoxic** metabolites produced in vitro by Sphaeropsis sapinea, pathogenic fungus of Pinus radiata. Eur J Plant Pathol 115:187-193 Google Scholar

## 27. Isolation of Borrelidin as a Phytotoxic pound from a

**isolation of** borrelidin from an Iranian Streptomyces strain, GK18. Borrelidin induced deep holes in potato tuber slices and inhibited the growth of shoots and roots of radish seedlings; its activity was about 1/10 of that of thaxtomin A. This is the first report on the **phytotoxic** activity of borrelidin. Materials and Methods

## 28. Isolation and characterization of Hena1

INTRODUCTION. Erwinia amylovora is a plant pathogen that causes fire blight, an important disease in Rosaceae. Current fire blight control strategies are based on a reduction of inoculum and preventive antimicrobial treatment (Nagy, Király and Schwarczinger 2012). Routine approaches, such as application of copper compounds and antibiotics, are limited by **phytotoxic** effects and development of ...

## 29. Frontiers Extracellular Vesicles From the Cotton

Extracellular vesicles (EVs) represent a system for the coordinated secretion of a variety of molecular cargo including proteins, lipids, nucleic acids, and metabolites. They have an essential role in intercellular communication in multicellular organisms and have more recently been implicated in host-pathogen interactions. Study of the role for EVs in fungal biology has focused on pathogenic ...

## 30.



## References:

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