Antifungal Diferulic Acid Formulation Containing Poacic Acid and Poacidiene, Method for Production, and Method of Using Same

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Inventors: John Ralph, Fachuang Lu, Mehdi Kabbage

The Invention

UW-Madison researchers have developed a method of using a combination of derivatives of lignin molecules to treat fungal pathogens. The researchers have studied a combination of two molecules that are derived from ferulic acid, a monomer of lignin, for activity in killing Clarireedia jacksonii and Fusarium oxysporum, two plant pathogens. They observed enhanced activity by using the combination as compared to using the molecules independently. The researchers also developed a simple chemical production method for making the two molecules from ferulic acid and showed that the crude extract from that single step process has similar activity as compared to the combination of the purified compounds.

Additional Information

For More Information About the Inventors

- John Ralph
- Mehdi Kabbage

Tech Fields

- Animals, Agriculture & Food : Plant biotech
- Clean Technology : Biobased & renewable chemicals & fuels
- Therapeutics & Vaccines : Anti-infectives (antibacterials, antifungals, antivirals)

For current licensing status, please contact Emily Bauer at emily@warf.org or 608-960-9842