



BCIL Biotech Consortium India Limited

An antifungal synthetic peptide derived from osmotin protein

TECHNOLOGY AVAILABLE FOR TRANSFER

UNMET NEED AND OPPORTUNITY

Problem: Foot rot disease, caused by the fungus *Phytophthora capsici*, is a major threat to black pepper cultivation, leading to significant economic losses. Traditional methods of control have proven ineffective, leaving farmers without a viable solution.

Solution: This innovative antifungal synthetic peptide derived from osmotin protein, (9-mer cyclic peptide) a natural defense compound found in wild pepper species. This peptide effectively targets and inhibits *Phytophthora capsici*, providing a promising solution for managing foot rot disease in black pepper crops.

STAGE OF DEVELOPMENT

This technology has successfully undergone rigorous laboratory validation. The antifungal synthetic peptide, a 9-mer cyclic marvel, derived from the osmotin protein in wild piper species, has showcased its efficacy against *Phytophthora capsici*, the notorious culprit behind Foot Rot Disease in Black Pepper.

The real test is underway! Seeds of Success Sown!

INTELLECTUAL PROPERTY

Indian Patent filed

UNIQUE SELLING PROPOSITION

- **Precision Protection:** Unlock targeted control with our 9-mer cyclic peptide. Derived from osmotin protein in wild piper species, it's your effective solution to combat *Phytophthora capsici*.
- **Natural and Eco-friendly:** Derived from a natural source, our peptide offers an alternative to harmful chemical fungicides, reducing the environmental impact of crop protection.
- **Highly Effective:** Exhibits potent antifungal activity against *Phytophthora capsici*, protecting black pepper crops from foot rot disease.
- **Broad Applicability:** Can be applied as a protective coating, spray, or other suitable delivery method, making it versatile for various agricultural applications.

LICENSING OPPORTUNITY

BCIL is looking for suitable industrial partner for commercialization of this technology. Invest in Innovation, Reap Sustainable Harvests.

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