

**Title** Fumigant activity of essential oils and components of *Illicium verum* and *Schizonepeta tenuifolia* against *Botrytis cinerea* and *Colletotrichum gloeosporioides*

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#### **Abstract**

To develop a natural fungicide against *Botrytis cinerea* and *Colletotrichum gloeosporioides*, a total of 25 essential oils were tested for their fumigant activity against post-harvest pathogens. The vaporous phases of oils were treated to each fungus on potato dextrose agar medium in half-plate separated Petri plates at 10  $\mu$ g per plate. The essential oil of *Illicium verum* strongly inhibited the mycelial growth of both *B. cinerea* and *C. gloeosporioides* by over 90%. On the other hand, the essential oil of *Schizonepeta tenuifolia* showed inhibitory activity against mycelial growth of only *B. cinerea* by over 90%.