

# Alk(en)ylresorcinol concentrations in 'Kensington Pride' mango peel and antifungal activity against *Colletotrichum gloeosporioides*

Zainuri, D.E. Irving, E.K. Dann, L.M. Coates, A.H. Wearing

Acta Horticulturae 975: 217-222: 2013.

---

## Abstract

Two preformed alk(en)ylresorcinols, 5-*n*-heptadecenylresorcinol and 5-*n*-pentadecenylresorcinol, were identified in 'Kensington Pride' mango fruit peel. The alk(en)ylresorcinols had antifungal activity against *C. gloeosporioides*, as determined from thin layer chromatography bioassays. Soil-applied activators of plant defence (Acibenzolar at 150 mg L<sup>-1</sup>, and soluble potassium silicate at 200 and 1000 mg L<sup>-1</sup>) did not influence concentrations of 5-*n*-heptadecenylresorcinol or 5-*n*-pentadecenyl-resorcinol in mango peel when applied 2 months after fruit set and one month later. Concentrations of both alk(en)ylresorcinols were high 2 months after fruit set but levels declined by 50% within 1 month (2 months before commercial harvest) and did not change significantly from commercial harvest until eating-ripe.