



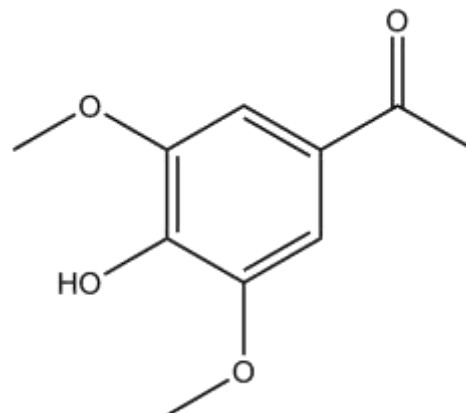
## Product Information Sheet

### A104 Acetosyringone

Synonym: 4-Hydroxy-3',5'-dimethoxyacetophenone  
CAS: 2478-38-8  
Formula:  $C_{10}H_{12}O_4$   
MW: 196.20 g/mol

#### Properties:

Form: Powder  
Appearance: Off-white to Tan  
Application: Molecular Biology  
Solubility: DMSO  
Typical Working Concentration: 50  $\mu$ M to 200  $\mu$ M  
Storage Temperature: -20°C  
Other Notes: Plant Tissue Culture Tested. Heat sensitive, do not autoclave.



#### Application Notes:

Acetosyringone is a naturally occurring compound secreted from wounded plant tissues, and is known as a *vir* inducer (Stachel *et al.* 1985). It has been found to increase the rate of transformation in monocots such as rice (Hiei *et al.* 1994), maize (Ishida *et al.* 1996), and wheat (Cheng *et al.* 1997).

Please Note: While *PhytoTechnology Laboratories®* tests each lot of this product with two or more plant cell/ tissue culture lines, it is the sole responsibility of the purchaser to determine the appropriateness of this product for the specific plants that are being cultured and applications that are being used.

#### References:

- Cheng M, Fry JE, Pang S, Zhou H, Hironaka CM, Duncan DR, Conner TW, and Y Wan (1997) Genetic Transformation of Wheat Mediated by *Agrobacterium tumefaciens*. *Plant Physiol.* 115:971-980
- Hiei Y, Ohta S, Komari T, and Y Kumashiro (1994) Efficient transformation of rice (*Oryza sativa* L.) mediated by *Agrobacterium* and sequence analysis of the boundaries of the T-DNA. *Plant J.* 6(2):271-282.
- Ishida Y, Saito H, Ohta S, Hiei Y, Komari T, and Y Kumashiro (1996) High efficiency transformation of maize (*Zea mays* L.) mediated by *Agrobacterium tumefaciens*. *Nature Biotechnology* 14:745-750.
- Stachel SE, Messens E, Van Montagu M, and P Zambryski (1985) Identification of the signal molecules produced by wounded plant cells that activate T-DNA transfer in *Agrobacterium tumefaciens*. *Nature* 318:624-629.