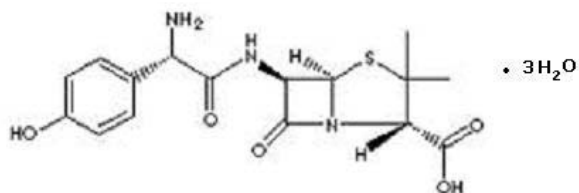


## Product Information Sheet

**A122**

### Amoxicillin Trihydrate



Synonyms: (2S,5R,6R)-6-[[[(2R)-Amino(4-hydroxyphenyl)acetyl]amino]-3,3-dimethyl-7-oxo-4-thia-1-azabicyclo[3.2.0]heptane-2-carboxylic Acid Trihydrate

CAS: 61336-70-7

Formula: C<sub>16</sub>H<sub>19</sub>N<sub>3</sub>O<sub>5</sub>S•3H<sub>2</sub>O

Mol. Weight: 419.5

#### Properties

Form: Powder  
Appearance: White to Off-White Powder  
Application: Plant Tissue Culture Antibiotic  
Solubility: Solubility per the Merck Index in Water is 4 mg/mL and Methanol is 7.5 mg/mL.  
Storage Temp: 2 to 6 °C

#### Application Notes

Amoxicillin is a beta-lactam antibiotic with spectrum activities similar to that of ampicillin. It's effective against most gram positive and gram negative bacteria by inhibiting bacterial cell-wall synthesis. Similar to other beta lactam antibiotics, amoxicillin activity is inhibited by beta lactamase producing microbes. Enhancement of activity has been reported when use in combination with a beta-lactam inhibitor such clavulanic acid.<sup>2</sup>

Please Note: 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

1. *Merck* **13**, 582.
2. *Martindale: The Complete Drug Reference*, 35th ed., Paul S. Blake, Ed. (Royal Pharmaceutical Society, 2007), p. 179.

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