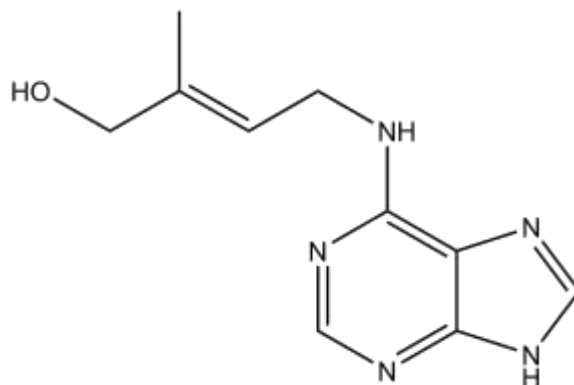




Product Information Sheet

Z860 *trans*-Zeatin Solution (1 mg/mL)

Synonym: (2E)-2-Methyl-4-(1H-purin-6-ylamino)-2-buten-1-ol
CAS: 1637-39-4
Formula: C₁₀H₁₃N₅O
MW: 219.24 g/mol



Properties:

Form: Liquid
Appearance: Clear, colorless to yellow tint
Application: Cytokinin
Solubility: Miscible with water
Typical Working Concentration: Varies by application, should be determined by the end user.
Storage Temp: -20°C
Other Notes: Plant Tissue Culture Tested; For Research Use Only

Application Notes:

First isolated from corn (Miller 1961), *trans*-Zeatin is considered to be the most potent of all the adenine-based cytokinins (Schmitz *et al.* 1972). Zeatin like other cytokinins promotes cell division, shoot proliferation and organogenesis, aids in the maintenance of the shoot-apical meristem, disrupts apical dominance, and delays senescence.

trans-Zeatin is stable through one autoclave cycle (Hart *et al.* 2016)

PhytoTechnology Laboratories® also carries *trans*-Zeatin as a powder, Product No. Z125.

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:

- Hart DS, Keightley A, Sappington DS, Chritton C, Nguyen P, Seckinger GS, and KC Torres (2016) Stability of Adenine-Based Cytokinins. *In Vitro Cell. Dev. Biol.-Plant* Vol. 52(1):1-9
Miller CO (1961) A Kinetin-like Substance in Maize. *PNAS* Vol. 47: 170-174.
Merck 13, 10170
Schmitz RY, Skoog F, Playtis AJ, and NJ Leonard (1972) Cytokinins: Synthesis and Biological Activity of Geometric and Position Isomers of Zeatin. *Plant Physiol.* Vol. 50:702-705.

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