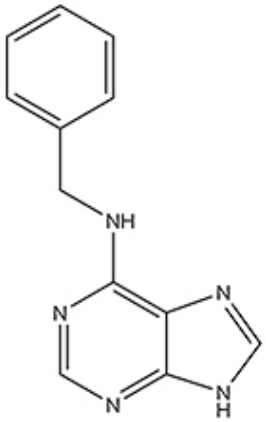
B800
6-Benzylaminopurine

Synonyms:	BA; N6-Benzyladenine
CAS:	1214-39-7
Formula:	$C_{12}H_{11}N_5$
Mol. Weight:	225.3



Properties

Form:	Powder
Appearance:	White to Off-White Powder
Application:	Plant Growth Regulator; Cytokinin
Solubility:	1N KOH or NaOH
Storage Temp:	Room Temperature
Stock Solution Storage Temp:	2 to 6 °C
Typical Working Concentration:	Varies by application. Concentration should be determined by end user.
Other Notes:	Plant Tissue Culture Tested; For Research Use only

Application Notes

6-Benzylaminopurine(BA) is one of the most popular cytokinins used to stimulate in vitro shoot development. It is often used in combination with an auxin, e.g., Indole-3-acetic acid (IAA), Napthaleneacetic acid (NAA), Indole-3-butyric acid (IBA).

BA is active across a broad range of plant species. Typical working concentration of BA is between 0.1 – 5.0 mg/L. It has been reported that 5-10 mg/L of BA is an optimal range for shoot multiplication of banana culture[1]; while 1.0 and 2.0 mg/L of BA have been used for blackberry culture.[2] At *Phyto*Technology Laboratories® most cultures (e.g., Achimenes, African violet, ajuga, begonia, hosta, syngonium, etc.) are maintained on MS medium supplemented with 1 mg/L of BA and 0.025 mg/L of NAA.

*Phyto*Technology Laboratories® also carries 6-Benzylaminopurine Solution (1 mg/mL), Product No. B130.

Please Note: While *Phyto*Technology 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

1. Vuylsteke, D.R. 1998. Shoot-tip culture for the propagation, conservation, and distribution of Musa germplasm. International Institute of Tropical Agriculture, Ibadan, Nigeria. 82 pp.
2. Bobrowski, Vera L., Mello-Farias, Paulo C., and Peters, Jose A. 1996. Micropropagation of blackberries (*Rubus* sp.) cultivars. *Rev. Bras. De Agrociencia.* 2(1):17-20.

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