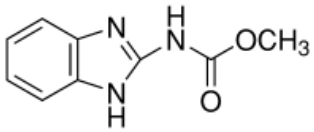
Product Information Sheet

C1888
Carbendazim

Synonyms:	BCM, Methyl 2-benzimidazolecarbamate, Methyl benzimidazol-2-ylcarbamate
CAS:	10605-21-7
Formula:	$C_9H_9N_3O_2$
Mol. Weight:	191.19



Properties

Form:	Powder
Appearance:	White to Off-White
Solubility:	Solubility per the Merck Index in water is 8 mg/mL at pH 7, 29 mg/mL at pH 4. It is also soluble in HCl and Acetic Acid
Application:	Plant Tissue Culture Antimycotics
Storage Temp:	2 to 6 °C
Stock Solution Storage Temp:	2 to 6 °C
Typical Working Concentration:	N/A
Other Notes:	Plant Tissue Culture Tested

Application Notes

Carbendazim is a broad-spectrum systemic antimycotic. Its mode of action is to inhibit the formation of mitotic microtubules in of fungi.[1] In a study, 10 ppm minimum inhibitory concentration of carbendazim is most effective toward of *Fusarium mangiferae,* a fungus that affects mango plants.[2] Carbendazim has also been reported to have cytokinin-like activity effect in plant tissue cultures, e.g., *Asparagus, Cordyline and Prunus.*[3]

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. Garcia, Pablo C., Rosa M. Rivero, Juan M. Ruiz, and Luid Romero. 2003. The Role of Fungicides in the Physiology of Higher Plants: Implications for Defense Responses. *The Botanical Review*. 69(2):167-172.
2. Iqbal, Zafar, M.A. Pervez, S. Ahmad, Y. Iftikhar, M. Yasin, A. Nawaz, M. Ghazanfar, A. A. Dasti, and A. Saleem. 2010. Determination of minimum inhibitory concentrations of fungicides against fungus *Fusariium mangiferae*. Pakistan Journal Botany. 42(5). pp. 3525-3532.
3. Debergh, P.C., G. De Coster, and W. Steurbaut. 1993. Carbendazim as an Alternative Plant Growth Regulator in Tissue Culture Systems. *In Vitro Cellular & Developmental Biology Plant*. Vol. 29P. No. 2(April) pp. 89-91.
4. *Merck Index*. **13th Ed.** #1799

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