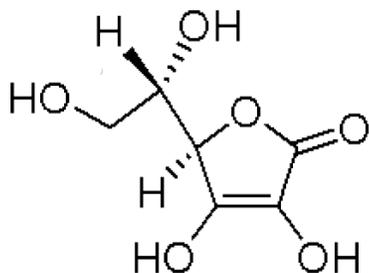




Product Information Sheet

A106 L-Ascorbic Acid



Synonym: 3-Oxo-L-gulofuranolactone, Vitamin C
CAS: 50-81-7
Formula: C₆H₈O₆
Molecular Wt: 176.13

Properties

Form: Powder
Appearance: White Crystalline
Application: Antioxidant; Vitamin
Solubility: Water
Typical Working Concentration: Varies with application, should be determined by end user.
Storage Temp: Room Temperature
Other Notes: Plant Tissue Culture Tested. Heat-sensitive, do not autoclave.

Application Notes

Commonly used to overcome browning of tissues in plant tissue culture.

References

- Banerjee N & Langhe E (1985) A tissue culture technique for rapid clonal propagation and storage under minimal growth conditions of *Musa* (banana and plantain). *Plant Cell Reports*, 4(6), 351-354.
- Joy Iv R.W., Patel K.R. & Thorpe T.A. (1988) Ascorbic acid enhancement of organogenesis in tobacco. *Plant Cell Tissue Organ Cult.* 13, 219-228.
- Ko, W. H., Su, C. C., Chen, C. L., & Chao, C. P. (2009). Control of lethal browning of tissue culture plantlets of Cavendish banana cv. Formosana with ascorbic acid. *Plant Cell, Tissue and Organ Culture*, 96(2), 137-141.
- Stasolla, C., & Yeung, E. C. (1999). Ascorbic acid improves conversion of white spruce somatic embryos. *In Vitro Cellular & Developmental Biology-Plant*, 35(4), 316-319.
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