



Product Information Sheet

V882 Vacin & Went Modified Orchid Basal Medium

Properties

Form:	Powder
Appearance:	White to Off-White
Application:	Orchid Culture
Solubility:	Water
Typical Working Concentration:	1.67 g/L
Storage Temp:	2 – 6°C
Storage Temp of Stock Solution:	Preparation of concentrated solutions is not recommended as insoluble precipitates may form.
Other Notes:	Contains the macro- and micronutrients as described by Vacin and Went (1949) modified with an equivalent iron molar concentration of ferrous sulfate in place of ferric tartrate. Without Sucrose

Formula

Ammonium Sulfate	500
Calcium Phosphate, Tribasic	200
Na ₂ EDTA•2H ₂ O	37.26
Ferrous Sulfate•7H ₂ O	27.8
Magnesium Sulfate, Anhydrous	122.1
Manganese Sulfate•H ₂ O	5.6
Potassium Nitrate	525
Potassium Phosphate, Monobasic	250
Thiamine•HCl	0.4

Application Notes

Also known as VW Medium, it has been used to tissue culture:

Callus of *Phalaenopsis* (Ishii et al., 1998)

Vanda coerulea (Malabadi et al., 2004)

Dendrobium (Aktar et al., 2007)



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References

- Aktar, S., Nasiruddin, K. M., & Huq, H. (2007). In vitro root formation in Dendrobium orchid plantlets with IBA. *Journal of Agriculture & Rural Development*, 5(1), 48-51.
- Ishii, Y., Takamura, T., Goi, M., & Tanaka, M. (1998). Callus induction and somatic embryogenesis of Phalaenopsis. *Plant Cell Reports*, 17(6-7), 446-450.
- Malabadi, R. B., Mulgund, G. S., & Nataraja, K. (2004). Efficient regeneration of Vanda coerulea, an endangered orchid using thidiazuron. *Plant cell, tissue and organ culture*, 76(3), 289-293.
- Vacin, EF and EW Went. 1949. *Bot. Gaz.* 110: 605-613.

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