Product Information Sheet

M551
Malmgren Modified Terrestrial Orchid Medium Without Sucrose

Properties

Form:	Powder
Appearance:	Gray powder
Application:	Orchid Culture
Solubility:	Water
Typical Working Concentration:	28.84 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, agar, and organic constituents as described by Malmgren (1996) pH = 3.75 – 4.75

Formula

Calcium Phosphate, Tribasic	75
Na_2 EDTA•$2H_2O$	37.26
Ferrous Sulfate•$7H_2O$	27.8
Magnesium Sulfate, Anhydrous	97.69
Manganese Sulfate•H_2O	1.54
Potassium Phosphate, Monobasic	75
Activated Charcoal	1000
Agar	7000
D-Biotin	0.05

Casein, Enzymatic Hydrolysate	400
Folic Acid	0.5
Glycine (Free Base)	2
myo-Inositol	100
Nicotinic Acid (Free Acid)	5
Pineapple Powder	20,000
Pyridoxine•HCI	5
Thiamine•HCI	10

Application Notes

Plant Tissue Culture Tested
Plant species: Terrestrial orchids including Paphiopedilum, Cypripedium, and Phragmipedium
This medium is a good seed sowing medium for many terrestrial orchid species. Originally developed for Cypripedium, this medium is also used for germination of Phragmipedium and Paphiopedilum. Germination may be enhanced by including 50 ml of Coconut Water (C195) per liter of medium.

References

Malmgren, S. 1996. In: C. Allen, Editor, North American Native Terrestrial Orchids.

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