

Product Information Sheet

C287 Chee & Pool C2d Vitis Basal Medium

Properties

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| Form: | Powder |
| Appearance: | White to Yellow Powder |
| Application: | Plant Tissue Culture |
| Solubility: | Water Soluble |
| Typical Working Concentration: | 4.49 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 and vitamins as described by Chee and Pool (1987). pH = 3.5 – 4.5 |

Formula (mg/L)

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| Ammonium Nitrate | 1650 |
| Boric Acid | 6.2 |
| Calcium Nitrate | 492.3 |
| Cobalt Chloride·6H ₂ O | 0.025 |
| Cupric Sulfate·5H ₂ O | 0.025 |
| Na ₂ EDTA·2H ₂ O | 37.3 |
| Ferrous Sulfate·7H ₂ O | 27.8 |
| Magnesium Sulfate, Anhydrous | 180.6 |
| Manganese Sulfate·H ₂ O | 0.845 |

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| Molybdc Acid (Sodium Salt)·2H ₂ O | 0.25 |
| Potassium Nitrate | 1900 |
| Potassium Phosphate, Monobasic | 170 |
| Zinc Sulfate·7H ₂ O | 8.6 |
| myo-Inositol | 10 |
| Nicotinic Acid (Free Acid) | 1.0 |
| Pyridoxine·HCl | 1.0 |
| Thiamine·HCl | 1.0 |

Application Notes

Plant Tissue Culture Tested

Plant Species: Grape (*Vitis* spp)

This medium was developed to improve grape shoot multiplication. This formulation has reduced levels of chloride, iodide, and manganese compared to MS. Calcium chloride was replaced by calcium nitrate, thus improving the quality of grape shoots.

References

Chee, R and RM Pool. 1987. Improved inorganic media constituents for in vitro shoot multiplication of *Vitis*. *Sci. Hort.* 32: 85.

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India Contact

Life Technologies (India) Pvt Ltd.

306, Agarwal City Mall, Road 44, Pitampura, Delhi - 110034 (India)

Tel: +91-11-4220-8000; 4220-8111; 4220-8222 Fax: +91-11-4220-8444, Mobile: +91-98105-21400

Email - customerservice@lifetechindia.com | customerservice@atzlabs.com