2,4-Dichlorophenoxyacetic acid
Plant Cell Culture Tested

Product Number  D 7299
Store at Room Temperature

Product Description
Molecular Formula: C₈H₆Cl₂O₃
Molecular Weight: 221.0
CAS Number: 94-75-7
Melting point: 140.5 °C¹
Synonym: 2,4-D

This product is plant cell culture tested at a concentration of 2 mg/L.

2,4-Dichlorophenoxyacetic acid is a synthetic auxin. It is the auxin most commonly used for inducing callus in culture; it is also used for maintaining cells in the dedifferentiated state. A typical working concentration is in the 1–50 µM range.²

2,4-D is the metabolite of 2,4-Dichlorophenoxybutyric acid in higher plants.³⁴

2,4-D has been used at a concentration of 3 mg/L in the culture of Lilium speciosum Thunb. Var. gloriosoides Baker, a perennial that is a lily variety.⁵

The IR spectrum (Nujol mull) has been published.⁶

Precautions and Disclaimer
For Laboratory Use Only. Not for drug, household or other uses.

Preparation Instructions
This product is soluble in 95% ethanol (100 mg/ml) yielding a clear to slightly hazy, faint yellow solution. Heat may be required to get the product to dissolve at this concentration.

Storage/Stability
Dilute aqueous solutions of this compound may be sterilized by autoclaving.

References

IRB/NSB 4/03

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