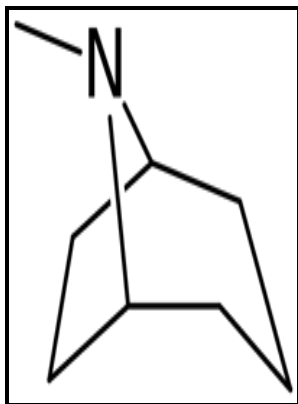


# Tropane alkaloid production by Datura

Leicester Polytechnic - Frontiers



Description: -

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## The Biosynthesis of Tropane and Tobacco Alkaloids in Datura and Nicotiana Transformed Root Cultures

No use, distribution or reproduction is permitted which does not comply with these terms. The high potency of ester and amides of tropic acid result from their ability to H—bond with suitable group o the receptor, surrounded by hydrophobic area. They are not considered to be alkaloids per definition.

### Tropane alkaloids notes

After incubating for 2 h at 30°C, the reaction products were extracted as described by and they were analyzed by GC-MS QP2010 Ultra, Shimadzu, Kyoto, Japan according to published methods. The tropane alkaloid profile was shown to be statistically different between sterile and non-sterile hydroponic conditions.

### Production of tropane alkaloids in cultured cells of Hyoscyamus niger

Tomus XLVII 3 , 409-416 1994. Reports on the use of the plant as an insecticide vary from good control of aphids in crops in Namibia to no effects in Australia.

### Tropane alkaloids notes

Although the complete biosynthetic pathway of TAs is still unclear, several enzymes have been identified Figure. Due to the potent combination of substances it contains, Datura typically produces the effects of usually involving a complete or relative inability to differentiate from ; ; ; bizarre, and possibly violent behavior; dry skin; dry mouth; illusions; and severe dilated pupils with resultant painful that can last several days. An ML for the sum of atropine and scopolamine is not given.

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