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Twelve secondary or tertiary alkaloids and two quaternary alkaloids were isolated from the twig of *Monanthes mitchocarpa* (Annonaceae).

Their structures were identified as (+)-laurotetanine (1), (+)-N-methylaurotetanine (2), (+)-isoboldine (3), S-actinodaphine (4), (+)-N-methylactinodaphine (5), (-)-3-hydroxynornuciferine (6), (-)-asimilobine (7), (-)-anonaine (8), (+)-reticuline (9), (+)-coclaurine (10), (-)-coreximine (11), O-discretamine (12), (+)-magnoflorine (13) and dehydrodiscretamine (14). These were confirmed as constituents of this plant for the first time.