

# Tannins from betel nuts.

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## Abstract

From the acetone extract of fresh-betel nuts, two procyanidin pentamers, two procyanidin tetramers and three procyanidin trimers, along with (+)-catechin, (-)-epicatechin, procyanidin A-1, procyanidin B-1, procyanidin B-2, and procyanidin B-7 were isolated. Based on H-1 NMR and C-13 NMR spectral data as well as the results of thiolysis degradation, the chemical structures of two series of oligomeric arecatannins A and B have been established. The arecatannins from betel nuts were found to be condensed-type tannins which possess (-)-epicatechin unit and (+)-catechin units. All arecatannins had C-4-C-8 linked (-)-epicatechin in the upper units whereas the (+)-catechin in the terminal unit had C-4-C-8 or C-4-C-6 linkage. [References: 17]