

## POTENTIALS OF AZADIRACHTA INDICA TANNIN EXTRACT

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### ABSTRACT

The *azadirachta indica* tannin extract is a flavonoid-polyethylene glycol complex. It is consisted of chrysin, myricetin, procyanidin catechin, galocatechin, fisetinidin, chalcone, radicinin, catechin gallate, quercetin associated with ethylene glycol, diethylene glycol and triethylene glycol. It has adhesive, plasticizer and pharmaceutical properties. These properties were determined using Matrix Assisted Laser Desorption Ionisation Time of Flight Mass Spectrometry (MALDI-TOF MS) methods. Used as adhesive, the Internal Bond strength of its particleboards based *Vachellia nilotica* exudate and paraformaldehyde as hardener were respectively 0,41 and 0,60 MPa. Their thermal behavior was identical; the difference appeared in the decomposition of the hardener used.

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