



## Supplementary Data

# Isolation and partial characterization of alkylferulate from *Entada africana* (Guill. & Perr.) stem bark extract

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(Received: 16-06-2019; Accepted 30-06-2019; Published Online 08-07-2019)

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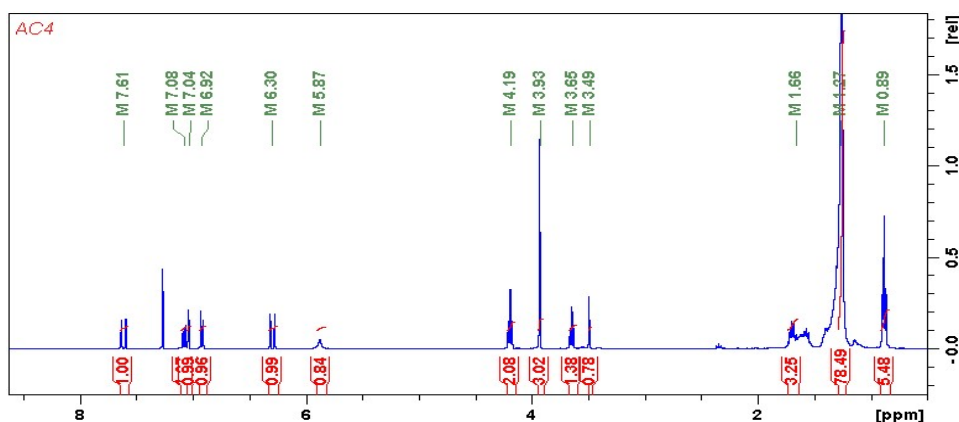
## Abstract

Investigation of the bioactive constituents of *Entada africana* crude extract afforded the isolation of alkylferulate. The hexane soluble portion of acetone/methanol (1:1v/v) crude stem bark extract of *Entada africana* was subjected to column chromatography on silica gel 60 (60-200) mesh size. Gradient column elution yielded an isolate coded AC4 with R<sub>f</sub> value of 0.65 in hexane/diethyl ether (3:2). The isolate was characterized using IR, NMR and in comparison with literature data. The analysis of spectroscopic data and literature comparison strongly suggests that AC4 is an alkylferulate; a known hypolipidemic agent in addition to other biological uses. The isolation of alkylferulate partly lays credence to the use of *Entada africana* in traditional medicine practice.

**Keywords:** *Entada africana*, Isolation, Alkylferulate, bioactive, Characterization

## (I) Proton NMR Spectrum of AC4

<sup>1</sup>H-NMR (CDCl<sub>3</sub>) 0.88 (3H, t, J=6.72 Hz), 1.27 (78H, s), 1.66 (2H, m, J=7.03 Hz), 3.49 (1H, s), 3.65 (1H, t, J=6.62 Hz), 3.93 (1H, s), 4.19 (2H, t, J=6.70 Hz), 5.87 (1H, s), 6.30 (1H, d), 6.92 (1H, d, J=8.12 Hz), 7.08 (1H, m, J=4.18 Hz), 7.61 (1H, d, J=15.89 Hz).



## (II) <sup>13</sup>C NMR of AC4

