

Cytotoxic essential oil from *Annona senegalensis* Pers. leaves

A. L. Ahmed, S. E. M. Bassem, Y. H. Mohamed, M. W. Gamila

aDepartment of Health Information Technology of Jeddah Community College, King

Abdul-Aziz University, Al- Rehab, 80283 Jeddah, Kingdom of Saudi Arabia

ABSTRACT

The cytotoxicity against brine shrimp of the essential oil obtained from the leaves of *Annona senegalensis* Pers. (Annonaceae) was studied. The confirmation of this toxicity has been done by using selected tumor cell lines (A549, HT29, MCF 7, RPMI, and U251). The results showed that the total oil and its fractions have showed mild to moderate cytotoxicity in brine shrimp lethality bioassay with $LC_{50} = 27.3$ μ g/ml, and against some human tumor cell lines. The total oil and its fractions were analyzed by gas chromatography/mass spectroscopy (GC/MS). Seventy three compounds were identified.

KEYWORDS

Annona senegalensis . GC/MS . essential oil . brine shrimp . cytotoxicity

REFERENCES

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