

Antibacterial, and Chemical composition of Essential Oil of *Ammoides Pusilla* Plant from Algeria

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Abstract—*Ammoides pusilla* is plant with many therapeutic properties. This work evaluates essential oil's chemical constituents and bioactivity of *Ammoides pusilla* collected from GRISS ALGERIA. The leaf essential oils were extracted by hydrodistillation and examined by gas chromatography-mass spectrometry (GC-MS). Twenty four compounds were characterized representing 82.9 % of the essential oil with *endo*-borneol (10.6 %), chrysanthenone (13.5 %), β -caryophyllene (11.1 %) and camphor (14.5 %) as main components. Antibacterial activity was tested against *Staphylococcus aureus*, *Staphylococcus epidermidis*, *Escherichia coli*, *Pseudomonas aeruginosa*. Minimum inhibitory concentration (MIC) values ranged from 0.45 to 1 μ L/mL, indicating strong efficacy, especially against Gram-positive bacteria.

Index Terms— *Ammoides pusilla*, essential oil, antibacterial, chemical composition, GPC /SM.

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