

Chemical Composition of Essential Oil from *Lavandula stoechas* and *Lavandula multifida* Growing Wild in Algeria

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Abstract : The essential oils of the aerial parts of *Lavandula multifida* and *L. stoechas* were extracted at the full bloom stage by hydrodistillation and their chemical compositions were estimated by means of gas chromatography-mass spectrometry (GC-MS). A total of 46 and 67 constituents were identified representing 95.5% and 98.2% of the total oils, respectively. The main components of *L. multifida* oil were carvacrol (63.8%), beta-bisabolene (8.7%), spathulenol (6.2%), caryophyllene oxide (3.6%) and linalool (2.9%). The oil of *L. stoechas* was dominated by fenchone (63.9%), camphor (7.8%), 1,8-cineole (5.3%) and myrtenyl acetate (4.2).

Keywords : essential oils, *Lavandula multifida*, *Lavandula stoechas*, chemical and molecular engineering

Conference Title : ICC 2015 : International Conference on Chemoinformatics

Conference Location : Jeddah, Saudi Arabia

Conference Dates : January 26-27, 2015