**Environmentally desirable synthesis of natural products without use of organic solvent at room temperature**

Hadjila Dokari1, Mohamed Hammadi1

1 University of Boumerdes, Faculty of Sciences,35000 Boumerdes Algeria, [hadjila\_2@yahoo..fr](mailto:hadjila_2@yahoo..fr) ; [mohamedhammadi35@yahoo.fr](mailto:mohamedhammadi35@yahoo.fr)

**Abstract**

Work undertaken resides in the development of next methods of synthesis, respectful of the environment. Liquid acid such as, chlorosulfonique acid and Solid acids like heteropolyacids and aluminosilicates (H+-ZSM5) can effectively replace sulfuric acid reaction d’acetoxylation of Lawsone without use of organic solvent at room temperature. The two step sequence (saponification-oxidation) constitutes a new synthesis of the hydroxynaphthoquinones. By the Theile-Winter reaction naphthotriol have been prepared and their oxidation on supported phthalocyanines allowed the synthesis of 2,3-dihydroxy-1,4-naphthoquinone.

In our work we are particularly interested in the synthesis of 2, 3-Dihydroxy-1,4-naphthoquinone **6.**This synthesis involves first the oxidation of 1,3-dihydroxynaphthalene in **4** lawsone and its transformation into tetracetoxy **5** by Thiele-winter reaction. The saponification of **5** followed by catalytic oxidation in situ of naphthotriols.

