



BM-A35

Anti-oxidative and anti-hemolytic effect of Algerian plants used in folk medicine

Sara Oumenoune Tebbi, Nadjet Debbache-Benaida

*Applied Biochemistry Laboratory, Faculty of Natural and Life Sciences, Université Abderrahmane Mira de
Bejaia 06000, Algeria.*

tebbi.sarah96@gmail.com ; sara.tebbi@univ-bejaia.dz

Tel : +213(0)782458546

Abstract

Pistacia lentiscus is Algerian plant widely used in traditional medicine, this study was designed to give a comprehensive account of the anti-hemolytic potential of polysaccharides extracted from this plant and the evaluation of its anti-inflammatory potential.

The obtained data demonstrated that the polysaccharides fraction were so effective toward free radicals and could inhibit and decrease red blood cells lysis. The anti-inflammatory activity of crude polysaccharides using different concentrations (200- 3.125 µg/ml) were and the results showed that inhibition percentage was great compared to other plant extracts in amount-dependent manner which can be influenced by several parameters.

In conclusion, the present study demonstrated that these two plant extracts were rich in bioactive molecules that can be used as nutraceutical agents for very interesting activities and can be tested as vaso-relaxant agents.

Keywords: Green extraction, Biological Activities, *Pistacia lentiscus*, Polysaccharides.