

【ABSTRACT】

The present disclosure relates to a composition for combating oxidation and alleviating the detrimental effects on skin caused by Asian Dust, which contains *Melia azedarach* bark and *Nelumbo nucifera* leaf extracts as a novel skin irritation
5 alleviating agent.

More specifically, the disclosed composition contains *Melia azedarach* bark and *Nelumbo nucifera* leaf extracts and entails detoxification and expulsion of toxins by increasing the expression of NQO1 which is an enzyme that detoxifies toxins and of GSTT1 which is an enzyme that expels toxins, protection of the skin by increasing
10 the expression of the skin antimicrobial peptide hBD3 which is a natural immune factor and suppression of production of reactive oxygen species by increasing the expression of the antioxidant proteins GPx1, catalase, Trx1 and Prdx1. Consequently, the composition provides the advantages of skin protection and aging suppression.