

Moringa oleifera leaf extract ameliorates photooxidative damage and photoaging induced by ultraviolet-B in HaCaT Keratinocytes

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Supplementary Materials

Table S1: Primer sets for RT-qPCR

Target gene	Sequences (5' to 3')	Accession Number
<i>MMP-1</i>	Forward: CTACGATTCGGGGAGAAAGTG Reverse: TCCTTGGGGTATCCGTGTAG	NM_002421.4
<i>MMP-3</i>	Forward: CCTCAGGAAGCTTGAACCTG Reverse: GAAACCTAGGGTGTGGATG	NM_002422.5
<i>MMP-9</i>	Forward: TGTACCGCTATGGTTAACTCG Reverse: GGCAGGGACAGTTGCTTCT	NM_004994.3
<i>SOD</i>	Forward: GTGGAGAACCCAAAGGGGAGTT Reverse: GTGGAGAACCCAAAGGGGAGTT	NM_001322817.2
<i>GPx</i>	Forward: TGTAACCAGTTCGGGAAGCA Reverse: CCACTTGATGGCATTTCCT	NM_001367832.1
<i>CAT</i>	Forward: GTTACTCAGGTGCGGGCATTCTAT Reverse: GAAGTTCTTGACCGCTTCTTCTG	NM_001752.4
<i>Col-1</i>	Forward: TGACGAGACCAAGAACTG Reverse: CCATCCAAACCACTGAAACC	NM_000088.4
<i>ELN</i>	Forward: GCCCCTGGATAAAAGACTCC Reverse: GTCCTCCTGCTCCTGCTGT	NM_001278913.2
<i>GAPDH</i>	Forward: GTCTCCTCTGACTTCAACAGCG Reverse: ACCACCCTGTTGCTGTAGCCAA	NM_001357943.2

Figure S1: Standard curve for determination of the total phenolic content

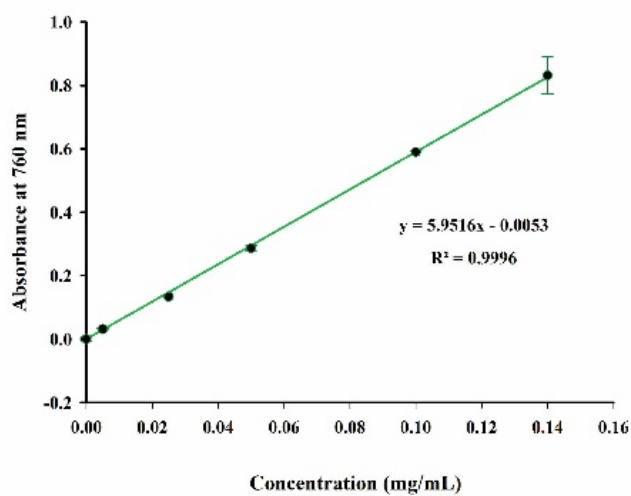


Figure S2: Standard curve for determination of the total flavonoids content

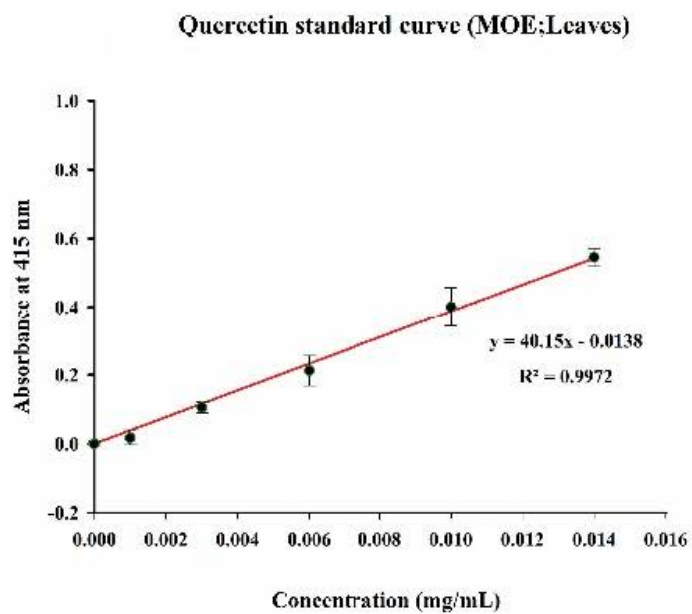


Figure S3: Gas chromatography/mass spectrometry (GC/MS) chromatograms of MOLE. The GC conditions are shown as follows: Instrument: Agilent 7890A GC with HP-5 column (30 m $\times$ 0.32 mm, 0.25 μ m). Injection: 2 μ L, 5:1 split mode, injector temperature 250 $^{\circ}$ C. Carrier gas: Helium, 1.0 mL/min flow rate. Oven program: Start at 40 $^{\circ}$ C for 5 min, Ramp to 200 $^{\circ}$ C for 25 min, and Ramp to 280 $^{\circ}$ C for 61 min.

