

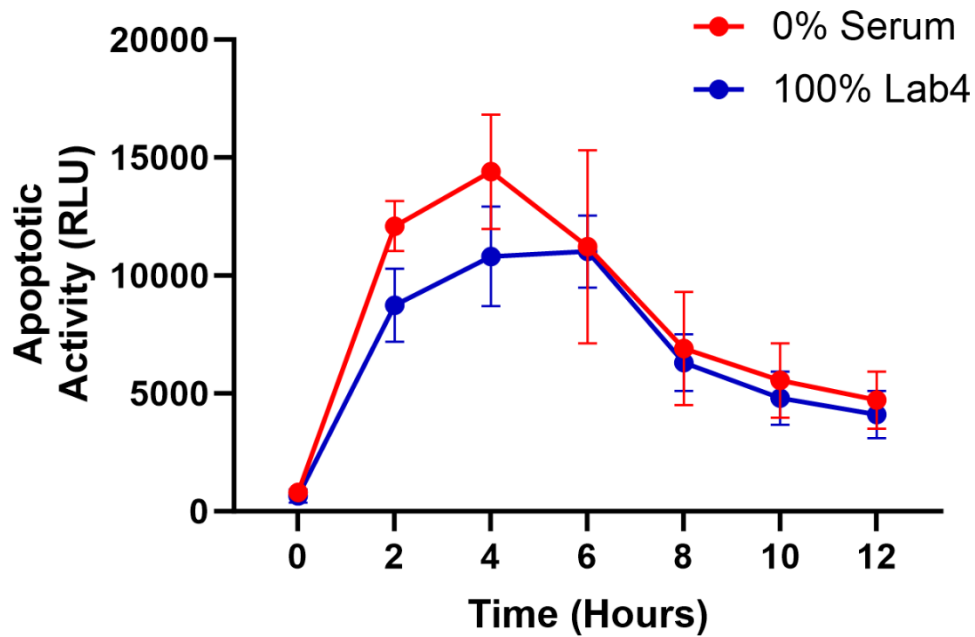
## *Supplementary Material*

### 1 Supplementary Tables

**Table S1.** Forward and reverse oligonucleotide primer sequences for RT-qPCR analysis.

<b>Gene</b>	<b>Forward Primer Sequence (5'-3')</b>	<b>Reverse Primer Sequence (5'-3')</b>
Caspase-3	TGCTTCTGAGCCATGGTGAA	CCACGGCAGGCCTGAATAAT
Bax	CCCGAGAGGTCTTTTCCGAG	CCAGCCCATGATGGTTCTGAT
Bcl2	CATGTGTGTGGAGAGCGTCAA	GCCGGTTCAGGTACTIONCAGTCA
Filaggrin	TGAAGCCTATGACAC	TCCCCTACGCTTTCT
HAS2	ATTACCCAGTCCTGG	CCTGTGGAAGACTCA
Involucrin	CTGCCTCAGCCTTACTGTGA	GGAGGAGGAACAGTCTTGAGG
Occludin	CGCAGCAGATTGGTT	GATTCGGTTTGAATT
Claudin	CCTGCCCCAGTGGAG	CACCATCAACCCACG
MMP-1	TCTGACGTTGATCCCAGAGAGCAG	CAGGGTGACACCAGTGACTGCAC
MMP-9	GAGACTCTACACCCA	CAAAGTCAAGGGGAA
Ki-67	CCGGATCGTCCCAGTGGGA	TTGACACAAAGGAAGCTGGA
IL-6	TCTGCCAGTGCCTCTTTGCT	TTCGGTACATCCTCGACGGC
IL-8	GAAGTTTTTGAAGAGGGCTGAGA	TTTGCTTGAAGTTTCACTGGCA
$\beta$ -Actin	ACTCTTCCAGCCTTCCTTCC	CGTACAGGTCTTTGCGGATG

## 2. Supplementary Figures



**Figure S1. Early apoptotic activity in serum deprived HaCaT cells supplemented with L4CM.** Early activity of apoptosis detected in serum deprived HaCaT cells following incubation with L4CM over 12 h. Data are presented as the mean relative luminescence units (RLU)  $\pm$  standard deviation (SD) from three independent experiments.