

1923.02.04

**Analysis of antioxidant effects through the protection of ROS
after UVA induction**



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induction

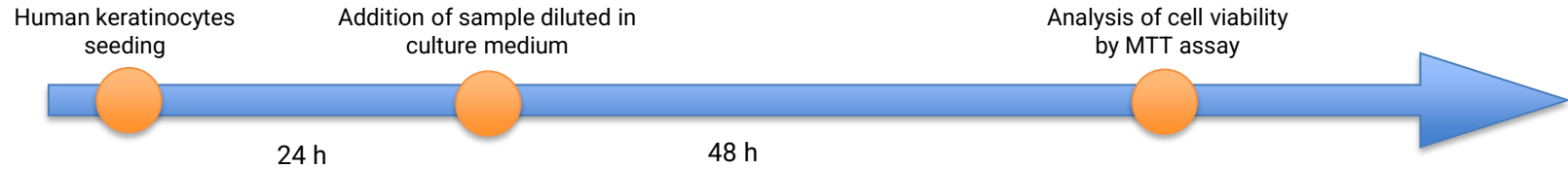


1. SAMPLE:

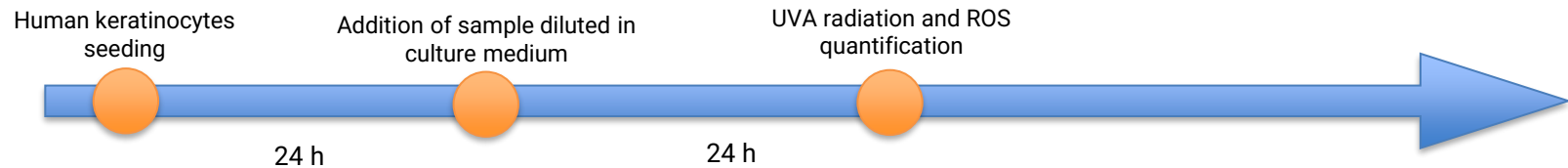
PRODUCT TESTED	PRODUCT CODE
CosmosPreserve	P.3689

2. ASSAY WORKFLOW:

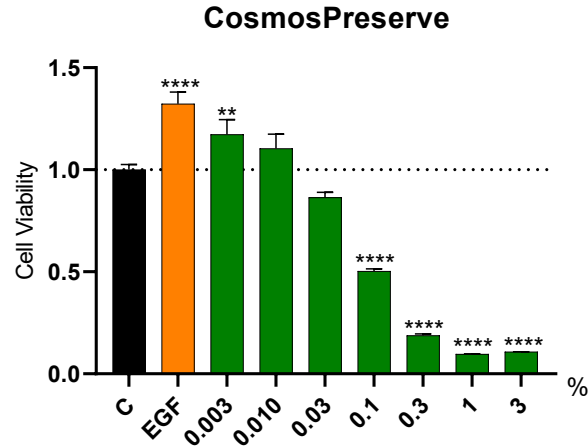
Cell viability



ROS quantification

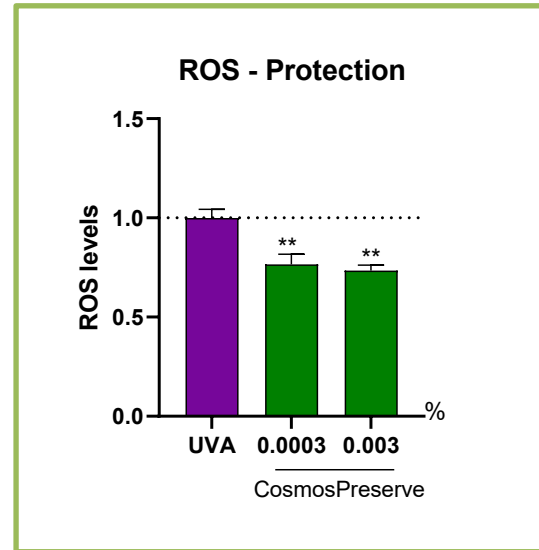
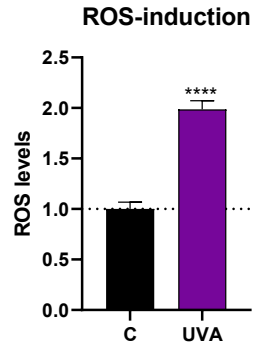
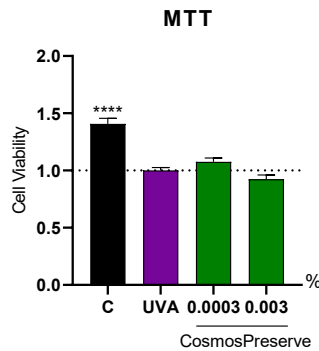


3. CELL VIABILITY:



- Epidermal Growth Factor (**EGF**, Positive Control) induced cell proliferation by increasing cell viability by **32.4 ± 5.0 %** in human keratinocytes.
- Treatment with **CosmosPreserve** at **0.003 %** induced cell proliferation by increasing cell viability by **17.4 ± 5.0 %** in human keratinocytes.
- Therefore, the selected working concentrations were **0.0003 %** and **0.003 %**.

4. ROS QUANTIFICATION:



- **UVA** radiation increased ROS levels by 98.6 ± 10.9 % in human keratinocytes.
- Treatment with **CosmosPreserve** at **0.0003** % and **0.003** % reduced UVA-increased ROS levels by 23.4 ± 5.9 % and 26.6 ± 5.9 %, respectively, in human keratinocytes.

5. CONCLUSIONS:

- Treatment with **CosmosPreserve** shows antioxidant potential by decreasing UVA-induced ROS levels in human keratinocytes.



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