

1924.18.04

Analysis of the regeneration potential using the Wound-Healing (Scratch) Assay



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Assay

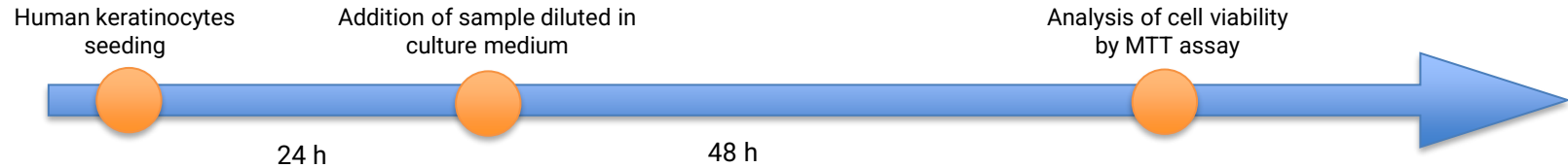


1. SAMPLE:

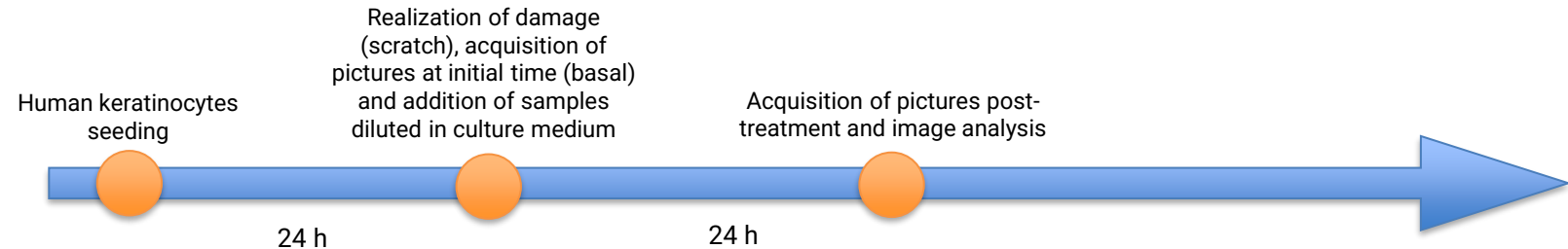
PRODUCT TESTED	PRODUCT CODE
CosmosPreserve (INCI: Cladonia (rangiferina/stellaris) Extract & Triethyl Citrate)	P.3689

2. ASSAY WORKFLOW:

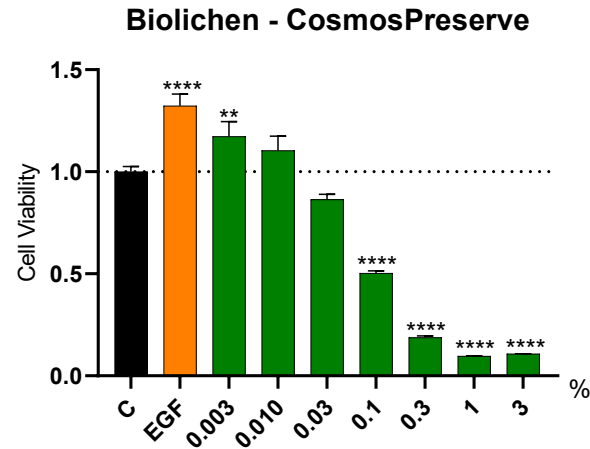
Cell viability



Wound-Healing assay

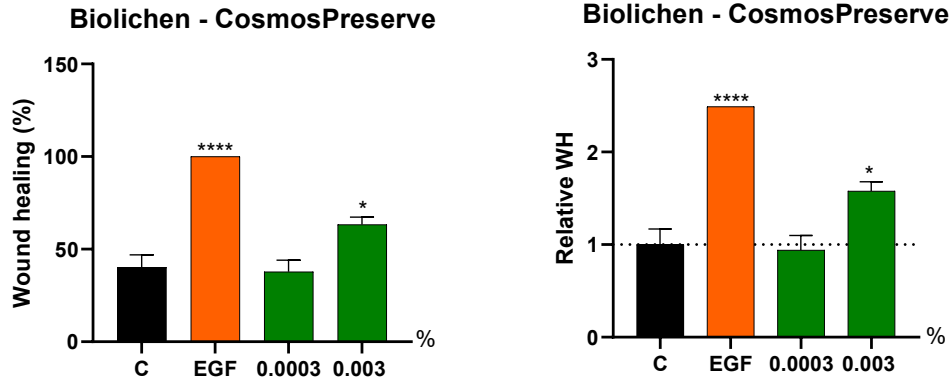


3. CELL VIABILITY:



- Epidermal Growth Factor (EGF, Positive Control) induced cell proliferation by increasing cell viability by 32.4 ± 5.0 % in human keratinocytes.
- Treatment with **Biolichen - CosmosPreserve** at **0.003** % induced cell proliferation by increasing cell viability by 17.4 ± 5.0 % in human keratinocytes.

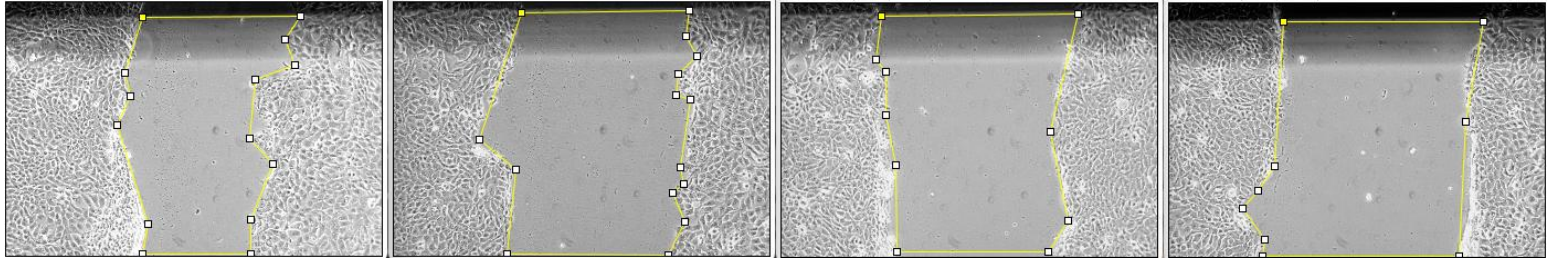
4. WOUND-HEALING ASSAY:



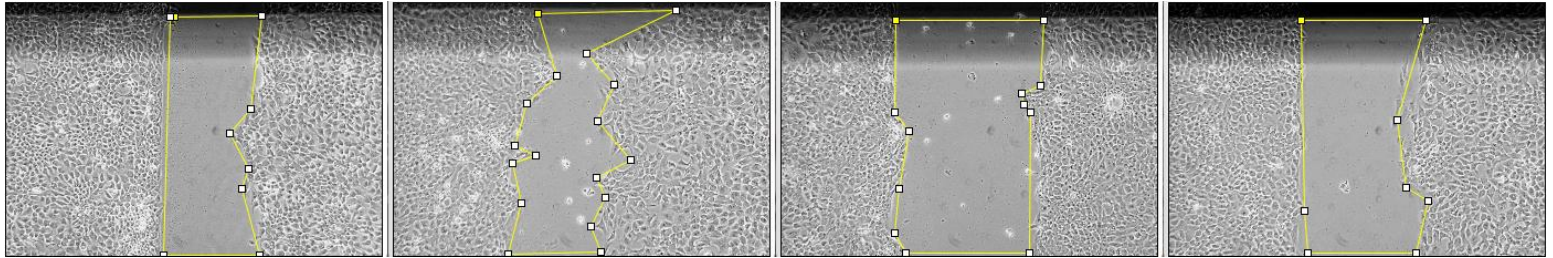
- Positive control (EGF) resulted in significant Wound Healing after 24h, with a value of $149.1 \pm 17.9\%$.
- Treatment with **Biolichen - CosmosPreserve** exhibited regenerative effects in human Keratinocytes after 24 h when used at **0.003%** ($57.8 \pm 19.3\%$).

4. WOUND-HEALING ASSAY:

Control Basal

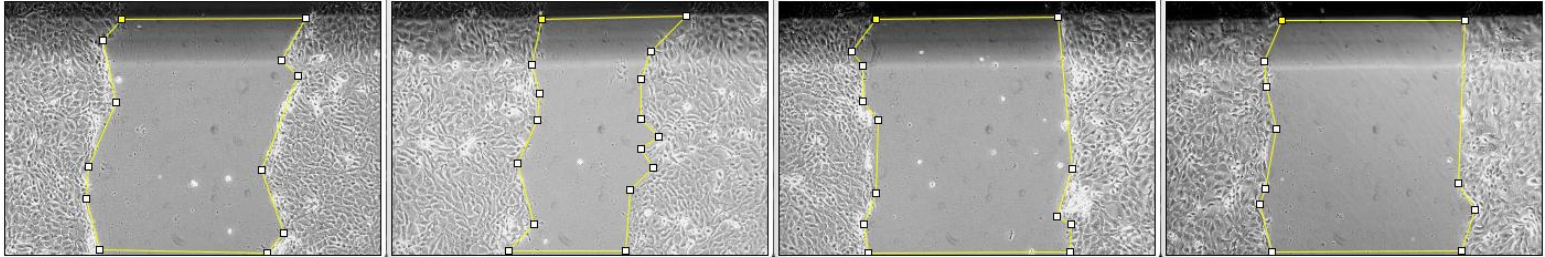


Control 24 H

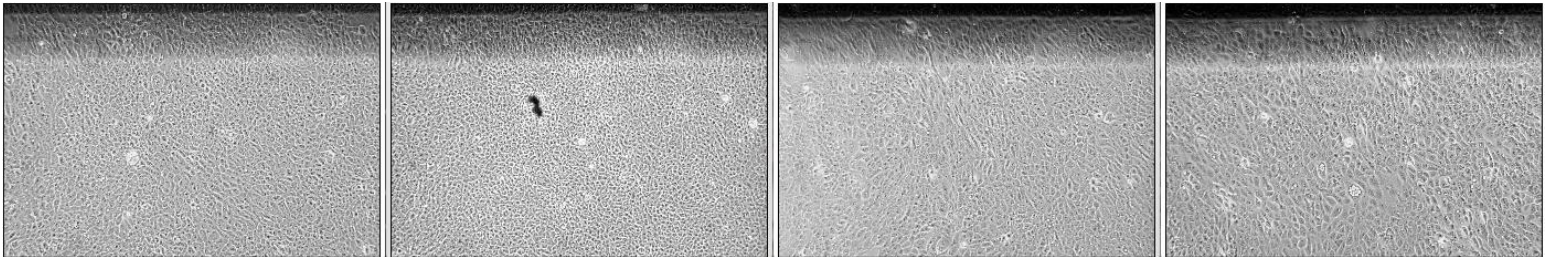


4. WOUND-HEALING ASSAY:

EGF 20ng/ml
basal

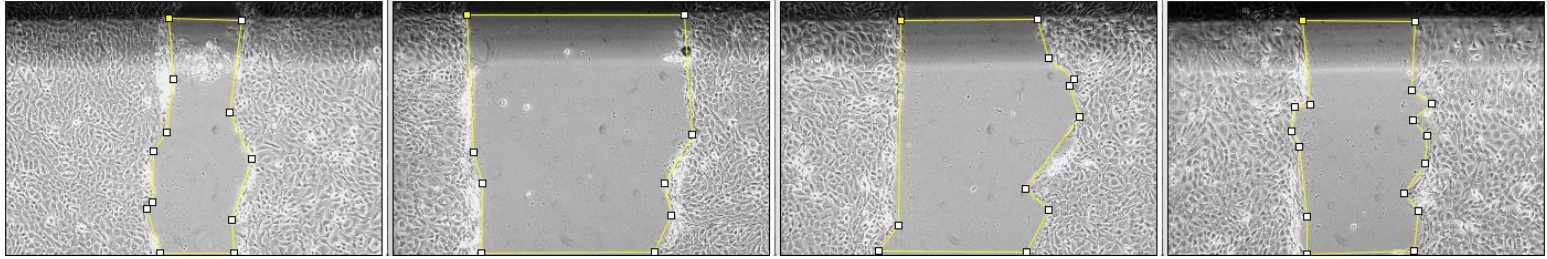


EGF 20ng/ml
24H

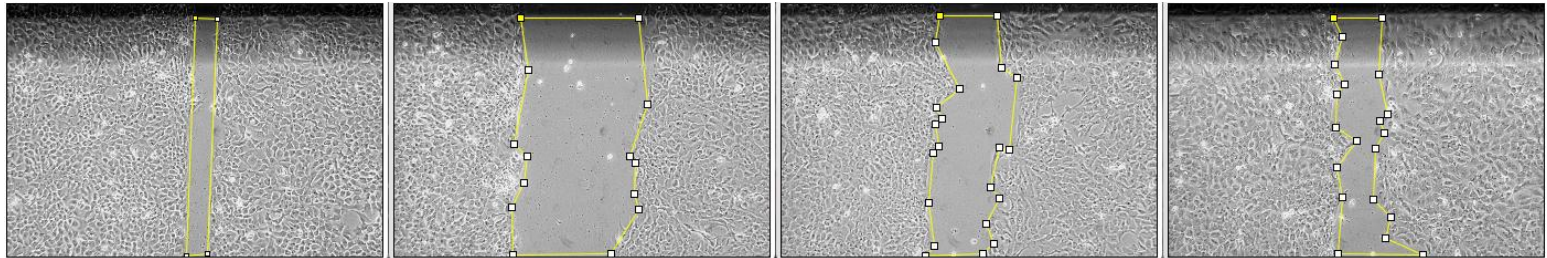


4. WOUND-HEALING ASSAY:

Biolichen –
CosmosPreserve
0.003%
basal

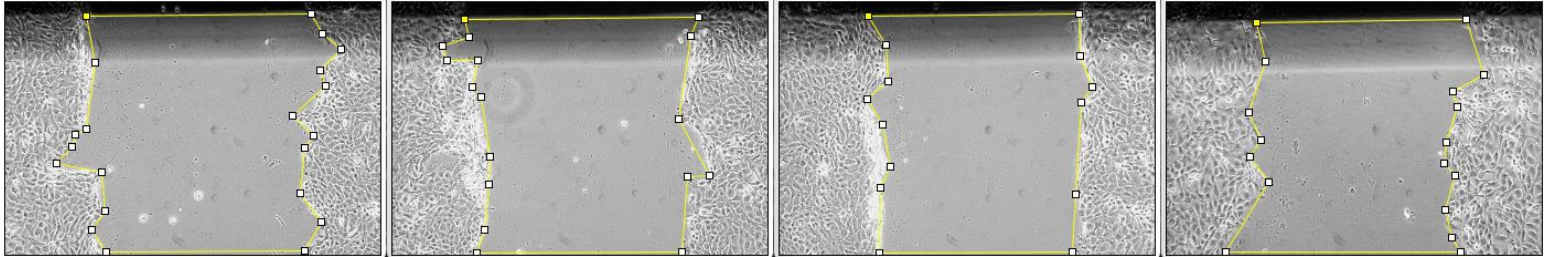


Biolichen –
CosmosPreserve
0.003%
24 H

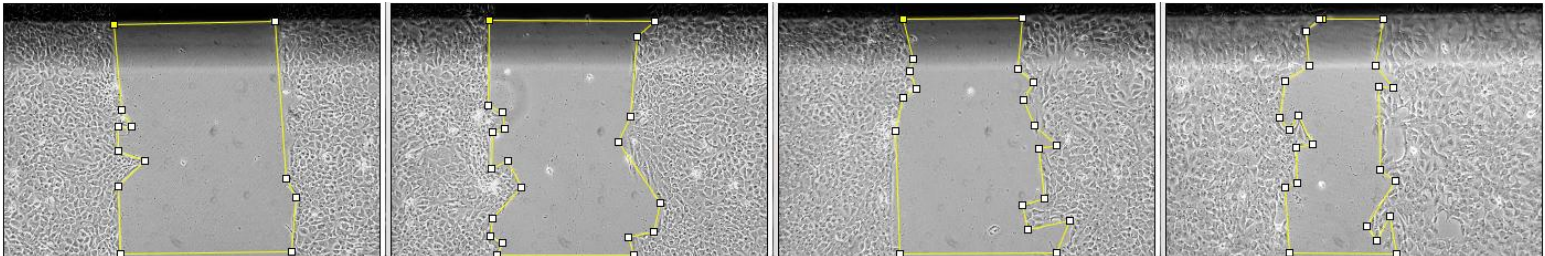


4. WOUND-HEALING ASSAY:

Biolichen -
CosmosPreserve
0.0003%
basal



Biolichen -
CosmosPreserve
0.0003%
24 H



5. CONCLUSIONS:

- Treatment with **Biolichen - CosmosPreserve** at **0.003 %** shows **regenerative potential** in human Keratinocytes after 24 h.



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