

Assay Name: Scratch wound healing assay using confluence

Assay ID: Celigo_04_0003

Description: Cell counting using confluence to measure wound healing scratch assay for oncology research

Stains: Label free

Imaging channels: Bright field

Image analysis algorithm: Celigo software Confluence

Methods:

1. Seed PC3 cells and leave overnight to reach confluence
2. Create uniform scratch using P-1000 pipette tip
3. Wash off any floating cells from the scratch wound
4. Capture images at 0, 24 and 48 hrs and count cells in a predefined as displayed below.

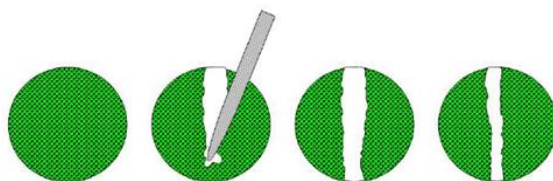
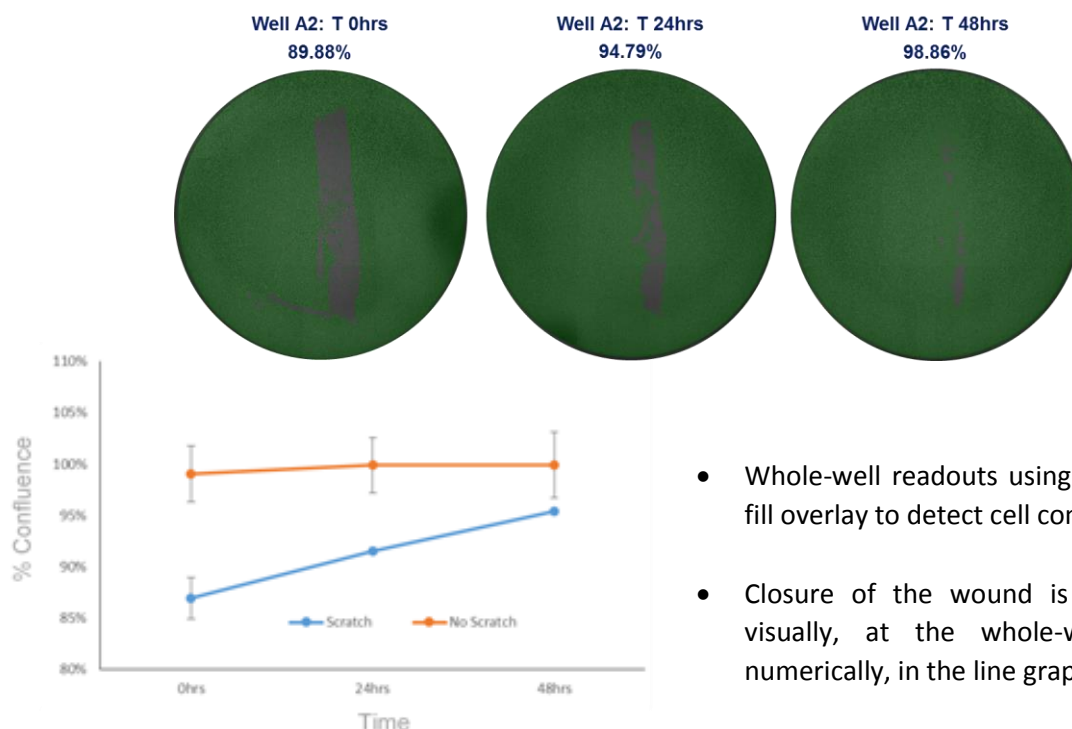


Figure 1. Wound creating diagram

Results:

Whole-well confluence using a pseudo-green fill overlay demonstrates the closure of scratch wound over time



- Whole-well readouts using a pseudo-green fill overlay to detect cell confluence
- Closure of the wound is displayed both visually, at the whole-well level, and numerically, in the line graph