

## Additional Information

Table 1 Materials Sources

Materials	Source
Minimum Essential Medium and Dulbecco's Modified Eagle's medium/F-12 (x100)	Life Technologies (Sydney, Australia)
Trypan blue solution (0.4%, w/v) and L-glutamine (200 mM)	Sigma-Aldrich (Sydney, Australia).
Fluorescein-sodium (flu-Na)	May & Baker Ltd. (Dagenham, England).
Fetal bovine serum (FBS), Hank's balanced salt solution (HBSS), and phosphate buffered saline (PBS)	Gibco, Invitrogen (Sydney, Australia)
Alcian blue 1% (pH 2.5) in 3% acetic acid	Fronine laboratory (Sydney, Australia).
Transwell® cell culture inserts (0.33 cm <sup>2</sup> polyester, 0.4 µm pore size) and black 96-well plates	Corning Costar (Lowell, MA, USA)
ELISA enzyme immunoassay kit	BD Bioscience (Sydney, Australia).
All chemicals and reagents were of the highest analytical grade.	

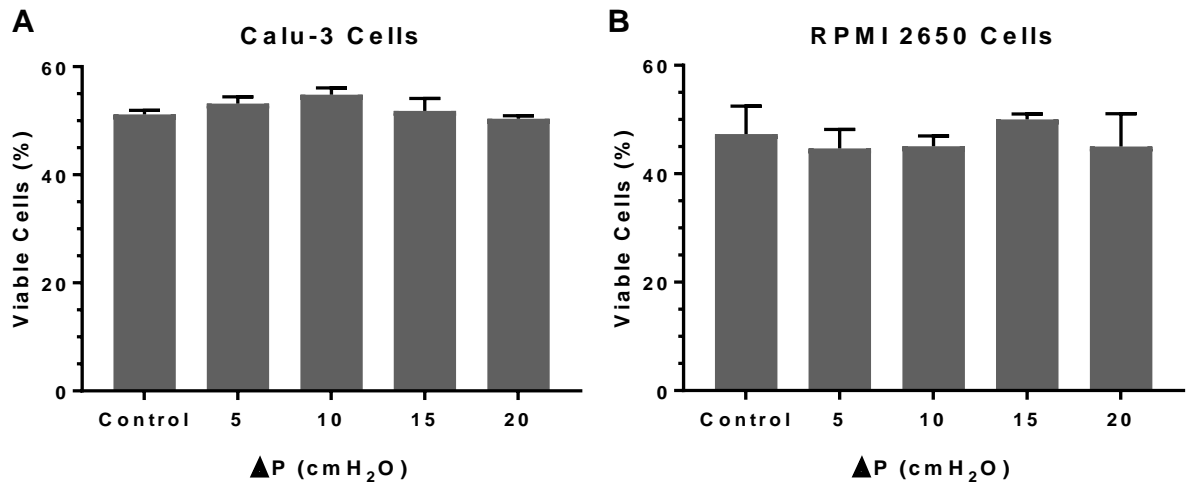


Figure 1. Viability of Calu-3 (A) and RPMI 2650 (B) cells after 5, 10, 15 and 20 cmH<sub>2</sub>O of PAP application for 8 hours with trypan blue exclusion test.

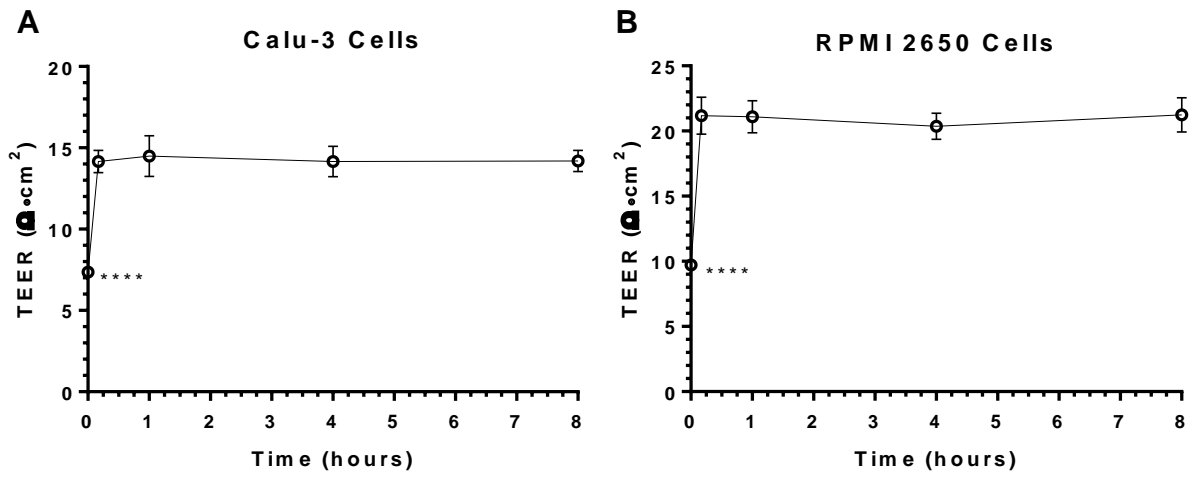


Figure 2. TEER measurements as a function of time cells at  $\Delta P=20$  cmH<sub>2</sub>O and 4000Hz using the holder. A. A- TEER measurements for Calu-3 cells. B- TEER measurements for RPMI 2650 cells.