

## Cytotoxicity assay for HTS in 96 well plates with Alamar blue

- Final volume per well for cells+compound is 100 µl.
- Compounds are tested in duplicate.
- Final volume after adding Alamar Blue is 110  $\mu$ l.
- The assay is performed <u>FOR 4 DAYS ASSAY</u> in DMEM without Phenol red + 2% FBS and 1% PSG to avoid interference of phenol red with the 590 nm absorbance reading.
- Controls
  - 1. cells alone
  - 2. dead cells: cells + lonomycin 100  $\mu$ M or other drug or detergent
  - 3. medium alone

## Protocol:

- warm up medium
- Trypsinize NIH/3T3 or HepG2 cells as described in cell culture protocol.
- When cells are detached, harvest them in DMEM without Phenol red + 2% FBS and 1% PSG.
- Spin for 5 min at 1000 rpm.
- Throw medium.
- Resuspend in DMEM without Phenol red + 2% FBS and 1% PSG.
- Spin again 5 min at 1000 rpm.
- Resuspend and count.
- Dilute cells to 5x10<sup>5</sup> cells/ml, transfer to sterile basin and plate 100 μL (50.000 cells) per well with multichannel pipette.
- Put back in incubator for 3 hours to allow cells to attach.
- Defreeze compounds.
- Vortex compounds.
- Add 2 μL of drug in the first row + 98uL of fresh media. Pipette up and down carefully to mix and transfer 100uL to the next row in order to make serial dilutions (2 fold dilution)
- Incubate for 4 days and add 10 μL Alamar blue