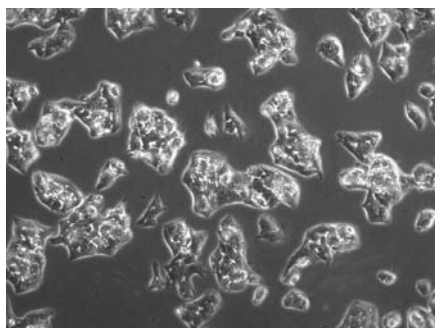


# ASSAY - READY - GO!

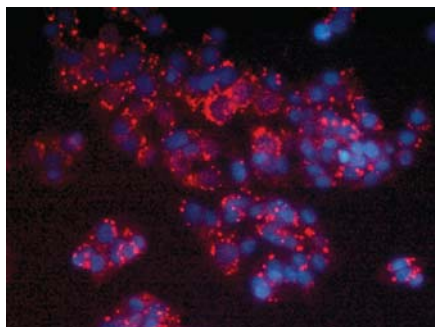
## instaCELL<sup>®</sup> phospholipidosis assay kit I

- + includes assay ready HepG2 cells
- + validated for instant use to test for drug induced phospholipidosis (DIP)
- + no prior cultivation or passaging of the cells required
- + sensitive and quantitative fluorescence read-out
- + selectively discriminates phospholipidosis from steatosis

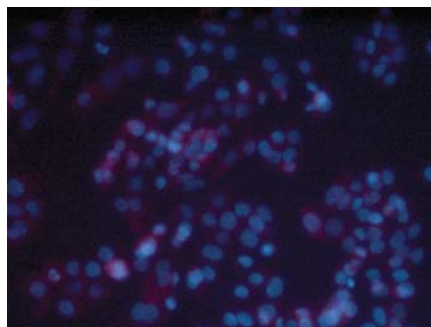


**assay ready HepG2 cells**  
assay ready HepG2 cells have an instantly high viability, low debris and attach within 24 hours.

**Sertraline [5  $\mu$ M]**

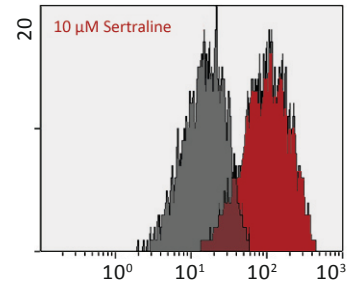
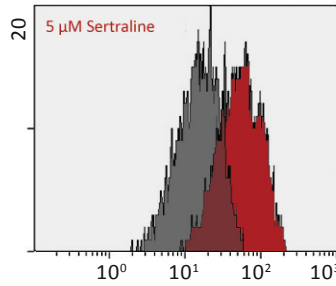
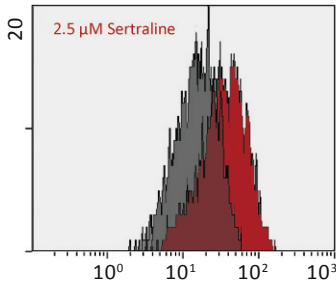


**Cyclosporine A [6  $\mu$ M]**



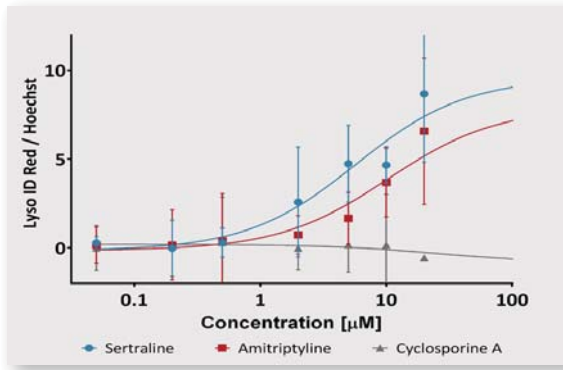
**drug induced phospholipidosis**  
assay ready HepG2 were treated for 48 hours with Sertraline, a potent inducer of phospholipidosis, and Cyclosporine A for negative control. Accumulated lipids in lysosomes were stained with LysoID Red (red), nuclei stained with DAPI (blue).





**flow cytometry based read-out of phospholipidosis**

assay ready HepG2 cells were treated with increasing concentrations of Sertraline and stained with LysoID Red. After flow cytometry analysis, fluorescence intensity was plotted as a histogram (red) and compared with the fluorescence intensity of Cyclosporine A treated control cells (grey).



**plate reader based read-out of phospholipidosis**

fluorescence analysis of assay ready HepG2 cells treated with phospholipidosis inducer Sertraline and Amitriptyline. Cyclosporine A was used as negative control. Fluorescence signals of LysoID Red were normalized against DNA staining.

**make your life easier**

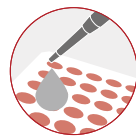
- + safe laboratory resources, no maintenance cell culture required
- + obtain reproducible results from reliably performing cells
- + flexibly schedule your assay, cells are instantly available at any time



thaw



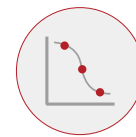
dispense



add samples



incubate



measure

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