

SOP-P037

HL60 Cells + Redox and JC1 Dyes in Tubes

Objective: To test the Dyes before running the 384 well plates

Procedure:

1. Take 2mls of the bulk supply of HL60 cells
2. Label 4 tubes as follows:

Amount in each tube:

- | | |
|-------------------------|-----------------|
| a) Cells only unstained | 500uls of cells |
| b) Redox | 500uls of cells |
| c) JC1 | 500uls of cells |
| d) JC1 + Valinomycin. | 500uls of cells |

(You don't need to spin down the cells only. Just leave them in the 37° water bath until ready to run on the Cyan.)

3. Spin down @1100 RPM / 10 minutes.
4. Remove supernatant / Resuspend cell pellet.

5. **Labeled Tubes:** **Amount of Dye needed:**

- | | |
|-------------------|--|
| Redox | 500uls of Redox Dye |
| JC1 | 500uls of JC1 Dye |
| JC1 + Valinomycin | 500uls of JC1 Dye + 2uls of Valinomycin
<u>(1:10 dilution of Valinomycin stock in DMSO)</u> |

6. Incubated for 10 minutes in a 37° water bath.
7. Run on the Cyan / Save data.

Created by: Cheryl Holdman

Verified by: _____ **Date:** 8/15/2013

Print Name

Sign Name