Screen Quest™ 10X cell staining buffer with Phenol Red Plus™

Catalog number: 36300
Unit size: 10 mL

Component	Storage	Amount (Cat No. 36300)
Screen Quest™ 10X cell staining buffer with Phenol Red Plus™	Freeze (< -15 °C), Minimize light exposure	10 Plates

OVERVIEW

Screen Quest™ 10X cell staining buffer with Phenol Red Plus™ is a ready-to-use buffer optimized for fluorescence cell imaging. In some cases, this buffer significantly enhances the imaging signal. Screen Quest™ 10X cell staining buffer with Phenol Red Plus™ is 10X concentrated and should be diluted to 1X with PBS before use.

SAMPLE EXPERIMENTAL PROTOCOL

Typical Assay Protocol (for one 96-well plate)

1. Thaw Screen Quest™ 10X Cell Staining Buffer with Phenol Red Plus™ to room temperature before use.

   Note: It is OK to use if the buffer has precipitates.

2. Prepare a 1X Screen Quest™ Cell Staining Buffer by adding 1 mL of Screen Quest™ 10X Cell Staining Buffer with Phenol Red Plus™ to 9 mL of HHBS (1X Hank's with 20 mM Hepes buffer, pH 7.0, cat#20001) or a buffer of your choice, and mix well.

   Note: 10 mL of 1X staining buffer is enough for one plate. The buffer is stable at room temperature. It is recommended to aliquot and store any unused 10X assay buffer at ≤ -20 °C. Protect from light. Avoid repeated freeze-thaw cycles.

3. Add the cell staining dye stock solution (generally, a concentrated DMSO solution) into 1X Screen Quest™ Cell Staining Buffer (from Step 2) to make the final well concentration 2X of the desired concentration.

4. Add the 2X Assay Solution (from Step 3) to the microplate well, making sure it's the same volume as the cell culture medium (e.g., 100 µL/well/96-well or 25 µL/well/384-well).

5. Incubate the cells in a 37 °C, 5% CO2 incubator, or as desired.

   Note: The staining dye has the potential to disrupt the effectiveness of the 1X Screen Quest™ Cell Staining Buffer. If this occurs, it is advisable to utilize a preferred cell staining method and swap out the cell staining solution with either the cell growth medium or HHBS. Following this, add 100 µL/well/96-well (25 µL/well/ 384-well) of 1X Screen Quest™ Cell Staining Buffer into each respective well.

6. Observe the cells with a fluorescence microscope or a plate reader as required.

EXAMPLE DATA ANALYSIS AND FIGURES

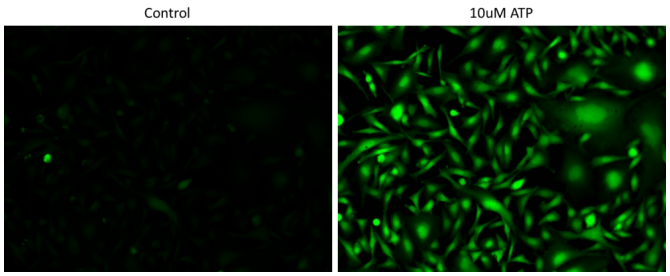

Figure 1. ATP dose response was measured in CHO-M1 cells with Cal-520 ™AM. CHO-M1 cells were seeded overnight at 50,000 cells/100 µL/well in a 96-well black wall/clear bottom costar plate. 100 µL of 10ug/ml Cal-520 ™AM in HH Buffer with 1X Phenol Red Plus™ cell staining buffer was added and incubated for 60 min at 37oC. ATP (50µL/well) was added to achieve the final indicated concentrations.

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