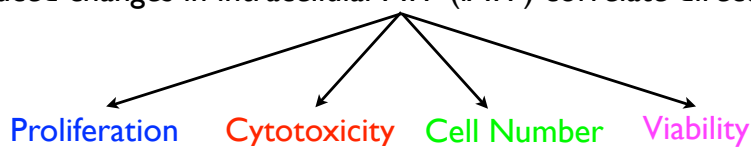


Assay Principle, Sensitivity and Parameters of ATP Bioluminescence

The Principle of ATP Bioluminescence Assays

Chemical Energy is used as a Biochemical Marker for Multiple Readouts

Induced changes in intracellular ATP (iATP) correlate directly with:

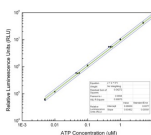


Released iATP + Luciferin + Luciferase = Bioluminescence

LIGHT

Calibrated,
Standardized &
Validated
Assays

ATP Standard Curve
& Controls



Assays You Can Trust
Innovative Expertise You Can Count On

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ASSAY PARAMETERS

Assay Sensitivity Range using ATP Bioluminescence: 0.001µM to 3µM ATP

Lowest ATP value indicating unsustainable cell proliferation: 0.04µM ± 15%

ATP value below which cells are metabolically non-viable: 0.01µM

ATP Assay Linearity: => 4 logs

Assay cell linearity: 1,000 - >25,000 cells/well

Assay cell sensitivity: 20-25 cells/well (depending on cell purity and other factors)

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