



OZBIOSCIENCES
The art of delivery systems



Protein Quantification Assays
Enzyme Detection - Reporter Gene Assays
Viability / Apoptosis / Stress Assays

Cellular Assay Kits

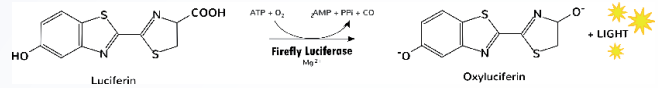
A COMPREHENSIVE LINE TO EASE

β -galactosidase & X-Gal Kits

LacZ is one of the most frequently reporter gene used in transfection experiments. LacZ encoded protein, β -galactosidase, is very stable, resistant to proteolytic degradation and easily tested.

- **Measuring high expression level of β -gal** - Choose the [ONPG Assay Kit](#)
- **Measuring low expression level of β -gal** - Choose the [CPRG Assay Kit](#)
- **Visualization of LacZ transfected cells in vitro and in vivo** - Choose the [X-Gal Staining Kit](#)

Luciferase Assay Kit



The [Luciferase Assay Kit](#) is the most sensitive analytical tool for measuring gene expression. Fast and easy, accurate and linear, this kit detects and quantifies firefly luciferase in transfected eukaryotic cells reaching high sensitivity level.



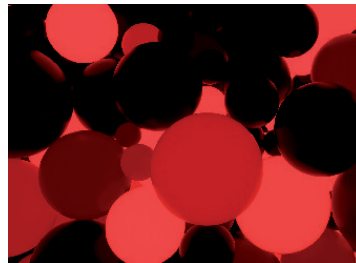
SEAP Assay Kit

OZ Biosciences [SEAP Assay Kit](#) (Secreted Alkaline Phosphatase) is a colorimetric assay for sensitive quantification of SEAP in culture medium from transfected cells or tissues.

FluoProdiges Protein Assay Kit

Facilitates and Improves Protein and Peptide Quantification

The [FluoProdiges Protein Quantification Assay Kit](#) presents a complete fluorometric assay for protein and peptide quantification.



This assay kit uses a stable analogue to epicoconone molecule that reversibly binds to lysine, arginine and histidine residues in proteins and peptides to yield an intense red-fluorescent product. The fluorescent signal (~518/605) is directly proportional to protein amount among a wide range of protein concentration, rendering this kit highly sensitive.

- **Accurate & Highly Sensitive** - Detect as little as 40 ng/mL - Large linear detection range: Over 3-orders of magnitude
- **Simple & Fast** - Protocol: 15 min - Pic of signal within 30 min - Signal duration: up to 4 hours
- **Safe & Biodegradable** - A natural product: non toxic, heavy metal free

PICK
THE KIT
THAT BEST
FITS YOUR NEEDS

Any questions?
tech@ozbiosciences.com

Bradford PaK

Classic Colorimetric Measurements

BCA PaK

The [Bradford PaK](#), ready-to-use kit, is provided with 1X reagent & 2 sets of BSA standards which means that no dilution, filtration or calculation are required. It is based on the binding of Coomassie Brilliant Blue G-250 dye to the proteins and particularly basic and aromatic amino acids residues.

Simply process your assay in a few minutes

The [BCA kit](#) is useful for colorimetric detection and quantification of total protein content even in the presence of detergents. It is based on the reduction of Cu²⁺ to Cu¹⁺ by proteins in alkaline solution. Bicinchoninic acid (BCA) chelates with the reduced copper Cu¹⁺ and forms a water-soluble purple reaction complex that exhibits a strong absorbance at 562 nm.

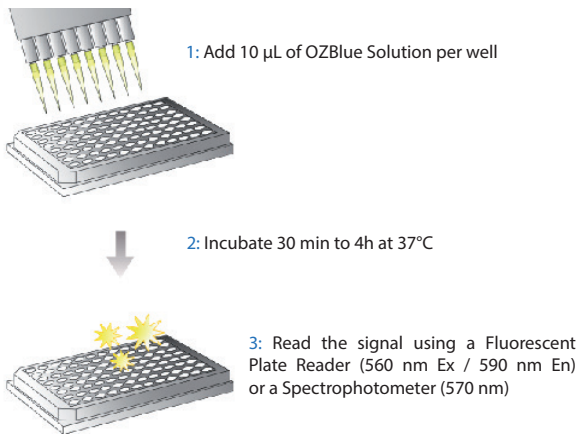
Robust and detergent-tolerant colorimetric detection

AND REFINE YOUR RESEARCH

OZBlue Cell Viability Kit (Resazurin)

Check Viability without killing your cells!

A ready-to-use assay system based on fluorimetric/colorimetric quantification of metabolic activity in living cells. The Resazurin dye is used as an indicator of cell viability.



- **Non-toxic** - OZBlue allows additional analysis on proliferating cells (mRNA, cytogenetic, apoptosis, immunophenotyping ...) and continuous monitoring of cultures over time
- **Non-toxic**- An improved alternative to [³H]Thymidine incorporation and Tetrazolium reduction Assay (MTT, XTT)
- **Simple** - A single ready-to-use reagent. No need of washing or extraction procedures

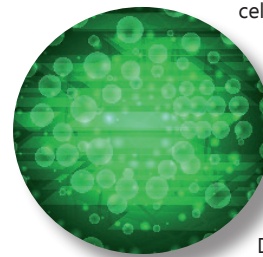
ROS Detection Assay Kit

Quantify cellular Reactive Oxygen Species (ROS)

Optimum levels of ROS play an important role in signaling pathways. However when ROS production increases and overwhelms the cellular antioxidant capacity, it can induce macromolecular damage (by reacting with DNA, proteins and lipids) and disrupt thiol redox circuits. This damage can lead to apoptosis or necrosis.

- **Ideal** for fluorescence microscopy, microplate titration and cytometry
- **Compatible** with adherent cells as well as suspension cells

Green Fluorescence

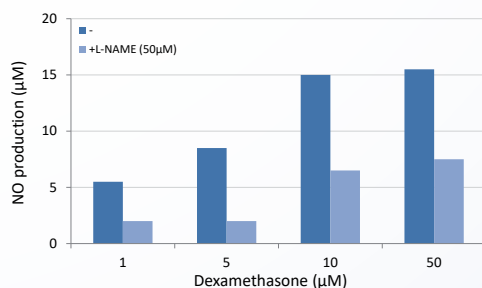


The ROS Detection Assay Kit uses the cell-permeable fluorogenic probe 2',7'-Dichlorodihydrofluorescein diacetate (DCF-DA).

Once DCF-DA has diffused into cells, it is deacetylated by cellular esterases to a non-fluorescent compound and rapidly oxidized by ROS into DCF.

DCF is highly fluorescent and can be detected by microscopy, titration in microplate and also cytometry (ex 485/em 535).

Colorimetric Assay



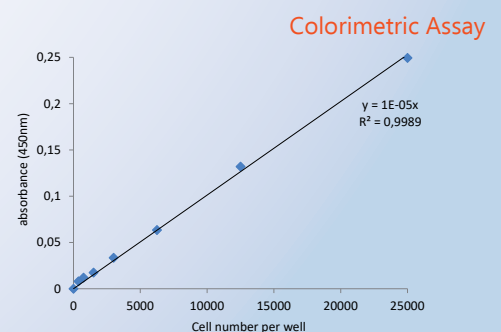
The WST-8 Cell Proliferation Assay Kit is a second generation of colorimetric assay for the determination of viable cell number and for studying induction of cell proliferation in vitro.

- **More sensitive** than other formazan-based assays
- **Ready to use** - no solubilization process required
- **Colorimetric measurement at 450nm**

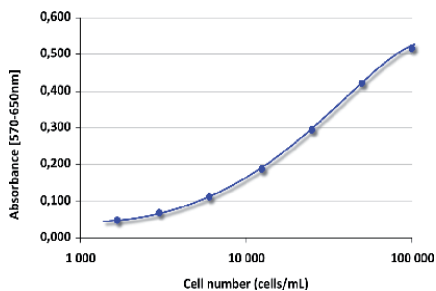
The Nitric Oxide Detection Kit is based on the reaction originally described by Griess to detect NO₂⁻ in a variety of biological fluids such as cell culture medium, plasma, serum, or urine.

- **Highly sensitive:** limit of detection ~2µM-125 pmol
- **Detection of NO₂⁻** in a linear and stable way
- **Colorimetric measurement at 540-570 nm**

WST-8 Cell



Colorimetric Plate Readout

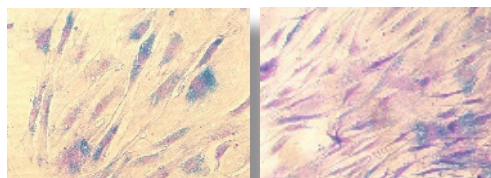


OZ Biosciences **MTT Cell Proliferation Assay Kit** is designed for spectrophotometric quantification of cell growth, viability and proliferation and can be used as a direct indicator of cytotoxicity (such as for screening anticancer drugs) and apoptosis.

Cellular Senes-

Ideal when cells in culture showed abnormalities typical of the Hayflick model -after a long period of normal growth- OZ Biosciences **Cellular Senescence Kit** provides an easy-to-use and efficient method to determine cellular senescence. During senescence in mammalian cells, an endogenous lysosomal β -galactosidase is over-expressed and is accumulated within the cells. The presence of this β -Gal activity is a marker of aging cell population in vitro.

Specific Stem cells Application



Adipose derived Stem Cells (passage 7) and Mesenchymal Stem Cells (passage 6) stained with the Cellular Senescence Kit. Nuclei counterstained with Crystal Violet solution, *not supplied*.

MORE PRODUCTS

D-Luciferin Potassium & Sodium Salt

Highest Purity: 99.7% - Endotoxin Free - Competitive price.

DMNPE-caged Luciferin

A D-Luciferin ester analogue which can cross cell membranes efficiently and can be used to supply a continuous source of active Luciferin.

Cas9 Nuclease

Optimized Cas9 Nuclease - with a N-Terminal His Tag, 2 Optimized Nuclear Localization Sequences (NLS) + 1 Genuine Targeting Sequence.

Designed to be more efficient at targeting the Cas9 protein to the nucleus.

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rev 05/2024

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