

BQC Oxidative Stress Line

Oxidative stress is a normal process in the body. Under normal conditions, the physiologically important intracellular levels of reactive oxygen species (ROS) are maintained at low levels by various enzyme systems participating in the in vivo redox homeostasis.

Oxidative stress leads to many pathophysiological conditions in the body. Some of these include neurodegenerative diseases such as Parkinson's disease and Alzheimer's disease, gene mutations and cancers, chronic fatigue syndrome, fragile X syndrome, heart and blood vessel disorders, atherosclerosis, heart failure, heart attack and inflammatory diseases.

BQC kits were developed for answering several questions: Is there a change in oxidative stress? What type chemical compounds can be detected in oxidative stress conditions? Is enzymatic activity of redox proteins modified?






BQC Oxidative Stress Line

-  **Catalase Activity Assay KIT**
-  **Protein Carbonylation Assay KIT**
-  **Nitrite Determination (Griess Reaction) Assay KIT**
-  **Nitrite/Nitrate Determination Assay KIT**
-  **Lipid Peroxidation Assay KIT (LPO)**
-  **Thiol Quantification Assay KIT (-SH/S-S)**
-  **L-Lactate Assay KIT**
-  **DMPD Antioxidant Capacity Assay KIT**
-  **ABTS Antioxidant Capacity Assay KIT**
-  **FRAP Antioxidant Capacity Assay KIT**
-  **ORAC Oxygen Radical Antioxidant Capacity Assay KIT**

BQC Protein Quantification and Western Blot Line

In this section BQC kits are designated to protein determination using different techniques with different susceptibility to detergents.




Furthermore other products could be used in Western Blot technique as BQckit ECL to obtain a signal detected through X-ray autoradiography or Ponceau S as a rapid and reversible stain for detecting protein bands on Western blot membranes.

-  **Fast Protein Quantification Assay KIT (Bradford)**
-  **Lowry Protein Quantification Assay KIT**
-  **BCA Protein Quantification Assay KIT**
-  **ECL Western Blotting Substrate**
-  **Ponceau Solution (0.1% w/v in 5% acetic acid)**

BQCell™ Line

BQckit provides an easy to use tool for studying the induction or inhibition of cell proliferation/viability in any in vitro cell line.

BQckit procures a colorimetric/ fluorometric method for measuring the number of viable cells, amount of DNA or mitochondria activity. In all cases these kits are a useful tool to screen drug candidates involved in cell cycle regulation.

-  **BQCell™ Cell Growth Determination KIT (MTT)**
-  **BQCell™ BLUE Viability Assay KIT**
-  **BQCell™ Cell Proliferation Assay KIT**

BQC Transfection Line

NEW

Transfection is the process of inserting genetic material, such as DNA, into mammalian cells. The introduction of DNA into a cell makes possible the expression, or production, of proteins using the cells own machinery; DNA must be transported to the nucleus for efficient transfection.

There, the DNA can be transiently expressed for a short period of time, or become incorporated into the genomic DNA, where the variation is passed on from cell to cell as it separates.

On the other hand insertion of RNA into a cell is utilized to down-regulate the production of a particular protein by stopping translation, the site of action for transfected RNA is the cytoplasm.

- . BQCtrans (KT-05-001)
- . BQCtrans PLUS (KT-05-002)- **High efficiency**
- . BQCtrans ULTRA (KT-05-003)- **Low toxicity**
- . BQCtrans LT (KT-05-004)- **Low toxicity, high efficiency**

BQckit

www.bqckit.com

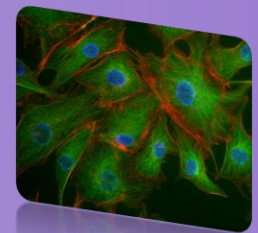
BQC Fluorescent Redox Probes

NEW

BQC Redox fluorescence probes are a cell permeant reagent fluorogenic dye that measures Radical Oxygen Species (ROS) activity in the cell. All these probes can be used in flow cytometer, microscopy and fluorimeter.

Intracellular ROS probes





- . BQC DHE (KP-06-002)
- . BQC DCFH-DA (KP-06-003)
- . DHR 123 (KP-06-004)
- . MULTIPROBE REDOX PROBES (KP-06-005)



COMING
SOON

BQC Food Analysis Line

In this line, BQCKits are recommended for antioxidant measurements of beverages or a measure of total phenols in natural products or anthocyanins content in wine or other food samples. Why these parameters are important? It strongly supports a role for polyphenols/antioxidants in the prevention of degenerative diseases, particularly cardiovascular diseases and cancers.

-  **Anthocyanins Measure Assay KIT**
-  **Folin Ciocalteu Polyphenols Assay KIT**
-  **DMPD Antioxidant Capacity Assay KIT**
-  **ORAC Oxygen Radical Antioxidant Capacity Assay KIT**

BQC Apoptosis Line

BQC kits can be measure the activity of caspases. Caspases (cysteine-aspartic proteases, cysteine aspartases or cysteine-dependent aspartate-directed proteases) are a family of protease enzymes playing essential roles in programmed cell death. Activity of caspase is measurement by a short peptide that contain a specific cleavage sequences that are recognized by the caspase and are covalently attached to a colorimetric or fluorogenic detection probe. Initiator caspases (caspase 2, 8, 9 and 10) initiate the apoptosis signal and the executioner caspases (caspase 1, 4, 5, 11 and 12) carry out the mass proteolysis that leads to apoptosis.

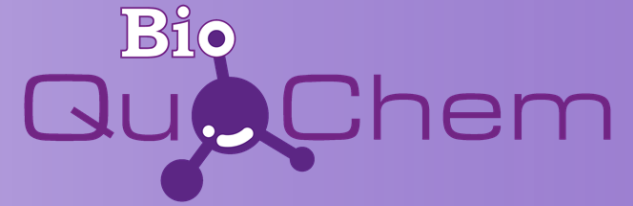
- . Caspase-2 (Colorimetric/ Fluorimetric)**
- . Caspase-3 (Colorimetric/ Fluorimetric)**
- . Caspase-6 (Colorimetric/ Fluorimetric)**
- . Caspase-9 (Colorimetric/ Fluorimetric)**

BQckit COMPANY STRENGTHS

- . BQckit designs, develops and produces BIOLOGICAL KITS
- . Innovative Company
- . High knowledge of the products: BQckit could answer CUSTOMER'S doubts related to the kits
- . Personalized attention
- . Competitive prices
- . Short delivery time
- . OEM Brand offer
- . Development of new line of products "à la carte"

BQckit PRODUCTS STRENGTHS

- . Development of more than 20 new products annually
- . New line of Transfection reagents with low toxicity and high efficiency
- . New line of Redox Fluorescence Probes including a multiprobe redox kit
- . Development of the kits trying to improve the already existing products in the market:
 - Shorter analysis time
 - High sensitivity
 - High stability
 - Greater range of linearity



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