

Transforming Oxidative Stress Research with Biomarker Solutions

Advancing Oxidative Stress Research
with a Comprehensive Redox Assay™ Series

The Redox Assay Series is designed for research in the oxidative stress marker field. It supports research in biology and clinical medicine focused on understanding the impact of oxidative stress on health and disease, providing valuable insights for disease prevention, diagnosis, and treatment.

Urinary biopyrrins ELISA kit

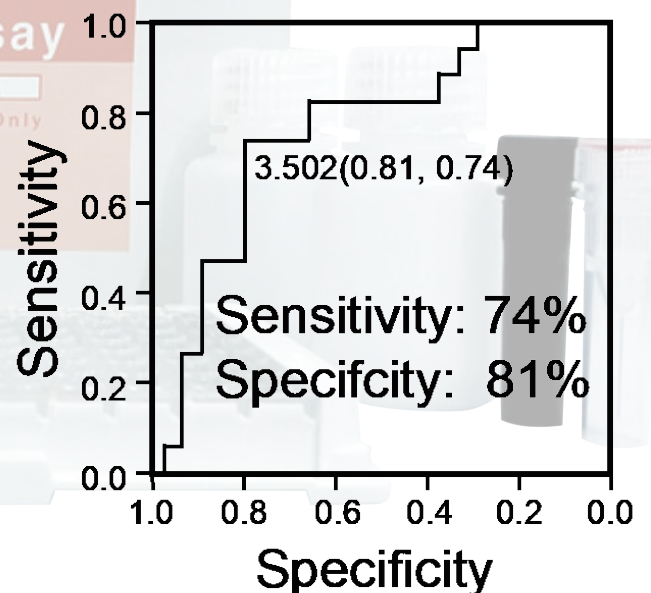
Urinary biopyrrins, a key marker of psychological stress.

Biopyrrins are closely associated with oxidative stress-induced cellular damage and offer valuable insights into the effects of psychological and physical stress on chronic diseases and immune function. Clinically, they hold potential for early diagnosis and management of stress-related diseases, lifestyle diseases, and inflammatory disorders. This kit provides an essential tool for quantifying the impact of psychological stress on health, offering insights into stress mechanisms and validating the efficacy of stress-relief interventions. It is ideal for research that supports the prevention and treatment of stress-related diseases.

ROC analysis of ARMS* evaluation based on urinary biopyrrin levels.

*: ARMS (At Risk Mental State) refers to a high-risk condition for developing psychosis.

Rei Wake et al, Early Intervention in Psychiatry. 2021; 1-9.



Recent Clinical Topics:

Recent clinical studies have identified urinary biopyrrin measurement as a valuable tool for managing oxidative stress during pregnancy. Research indicates that biopyrrin levels are elevated in pregnant women, especially in late pregnancy, and may serve as a promising indicator for assessing the risk of pregnancy-related complications.

TAC Assay Kit (Total Antioxidation Capacity)

The TAC Assay Kit assesses the body's total antioxidative capacity, which is essential for understanding defense mechanisms against oxidative stress. A reduction in antioxidative capacity is linked to increased risks of cardiovascular disease, neurodegenerative diseases, diabetes, and cancer. Clinically, it may be useful for predicting disease risk and monitoring the efficacy of antioxidant therapies. The TAC assay provides a comprehensive evaluation of antioxidative defense mechanisms, supporting research into cellular health maintenance, disease prevention, and therapeutic interventions. It is particularly valuable for assessing disease risk and guiding preventive strategies.

Recent Clinical Topics:

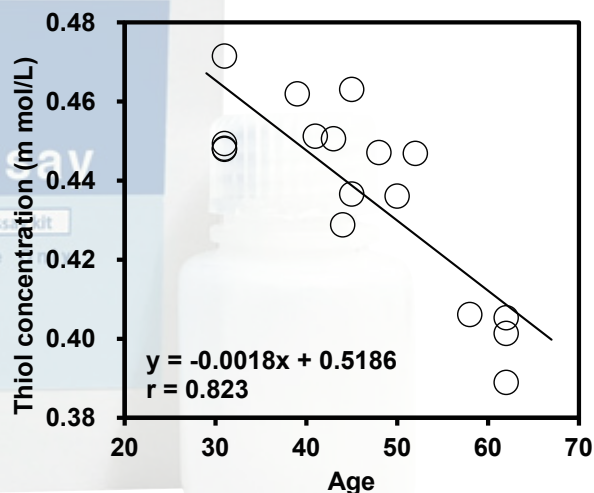
Clinical research has demonstrated that total antioxidative capacity (TAC) levels are useful for prognostic evaluation in patients with cardiovascular disease. Low TAC levels are associated with increased risks of atherosclerosis, hypertension, and heart failure, establishing TAC as a valuable tool for patient management and therapeutic monitoring.

Thiol Detection Assay Kit (DTNB assay kit)

This kit uses the DTNB assay method to measure thiol groups, which are crucial for maintaining cellular redox balance and defending against oxidative stress. Low thiol levels are associated with increased risks of liver disorders, diabetes, cardiovascular diseases, and rheumatoid arthritis. Clinically, the kit provides valuable insights for assessing oxidative stress-related disease risk and therapeutic management. As an essential indicator of redox balance and oxidative stress-induced cellular damage, this kit serves as a fundamental tool for research in oxidative stress and antioxidant therapies, contributing to the understanding of disease mechanisms and the development of preventive treatments.

Recent Clinical Topics:

Recent clinical studies highlight serum thiol concentration as a promising marker for monitoring oxidative stress management and therapeutic efficacy in patients with diabetes. Patients with lower thiol levels have been found to be at a higher risk of complications, making regular monitoring highly recommended.



The relationship between blood thiol concentration and age shows a tendency for blood thiol levels to decrease as age increases.

Product name	Cat. #	Assay principle	Range of wavelength
Biopyrrin ELISA kit	BP01DE	ELISA	450 nm
Total Antioxidant Capacity (TAC) Assay Kit	AC01DE	Copper reductive capacity	490 nm (430 - 510 nm)
Thiol Detection Assay Kit	TH01DE	Ellman	412 nm (380 - 440 nm)

【Manufacturer】

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