

Introducing

New OXI-TEK Products



From
ZeptoMetrix Corporation
872 Main Street
Buffalo, NY 14202
Tel: 800 274 5487
Fax: 716 882 0959
Website:
www.ZeptoMetrix.com

TBARS ASSAY

The sensitivity of measuring Thio-barbituric Acid Reactive Substances (TBARS) has made this assay the method of choice for screening and monitoring lipid peroxidation, a major indicator of oxidative stress. This rapid, easy-to-use procedure has been modified by researchers for use with many sample types including drugs, foods and human and animal biological tissues.

The OXI-TEK TBARS assay is designed to provide standardized, reproducible results. Protocols for testing several sample types are provided. Results are quantitative and can be determined by fluorometry or spectrophotometry. The kit provides the necessary reagents to perform 160 tests and is stable for one year when stored at 2 to 8 C.

<u>Catalog #</u>	<u>Description</u>
0801192	TBARS Assay

An informational sheet for all the OXI-TEK products is available in PDF format at www.ZeptoMetrix.com. Contact our Customer Service Department for pricing or further product details.

DNA ISOLATION KIT

The OXI-TEK DNA Isolation Kit is designed for isolating high molecular weight genomic DNA from whole blood, cultured cells and tissues.



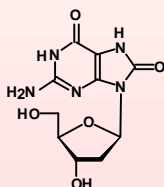
DNA Isolation Kit

The procedure delivers high quality DNA without the use of columns, re-ins or toxic organic reagents. This chaotropic method for extracting DNA and the inclusion of Desferal protect samples from oxidation and lessens background peaks during LC-MS analysis. Extracted DNA is suitable for many applications including oxidative DNA damage, amplification, restriction enzyme digestion, sequencing and Southern blot analysis. Reagents are provided to perform 25 to 100 isolations depending on type and quantity of sample.

<u>Catalog #</u>	<u>Description</u>
0805001	DNA Isolation Kit

NUCLEOSIDE STANDARDS

Ionizing radiation and many carcinogens can cause DNA damage. Hydroxyguanosine is one of the most frequently produced mutagenic bases produced by DNA damage. In recent years the formation of 8-Oxo-7,8-dihydro-2-deoxyguanosine (8-Oxo-dG) has been widely studied as a biological marker for oxidative dam-



8-Oxo-dG

The OXI-TEK 8-Oxo-dG is supplied lyophilized at 1 mg per vial. Identification and an index of its purity (98%) were determined by proton NMR spectroscopy at 400 MHz. It may be used as an internal standard in various applications including LC-MS analysis. 8-Oxo-2-Deoxy Adenosine (8-Oxo-dA) is also available.

<u>Catalog #</u>	<u>Description</u>
0801218	8-Oxo-dG
0801219	8-Oxo-dA

DINUCLEOTIDE STANDARDS

Oxidative DNA damage can result from environmental factors such as radiation as well as normal metabolic processes. It has also been implicated in several human diseases including cancer and neurodegenerative disorders. Therefore, the detection of DNA damage in cells exposed to oxidative stress has been widely studied.

Exclusively available from ZeptoMatrix are eight internal standards for end-labelling and LC-MS analysis of oxidative DNA damage. These biological markers have been chemically synthesized to improve reliability and accuracy and purified by HPLC. Identification and purity are determined by proton NMR

<u>Catalog #</u>	<u>Description</u>
0801210	Formamido Guanine Dimer d(P ^f pG)
0801211	Formamido Cytidine Dimer d(P ^f pC)
0801212	Formamido Thymine Dimer d(P ^f pT)
0801213	Formamido Adenine Dimer d(P ^f pA)
0801214	Thymine Glycol Guanine Dimer d(T ^g pG)
0801215	Thymine Glycol Thymine Dimer d(T ^g pT)
0801216	Thymine Glycol Cytidine Dimer d(T ^g pC)
0801217	Thymine Glycol Adenine Dimer d(T ^g pA)