

Salivary Uric Acid Assay Kit

Item #: 1-3802 (single), 1-3802-5 (5-pack)



Kit Specifications

Format:	96-well plate
Tests Per Kit:	88 (singlet)
Type:	Quantitative
Method:	Enzymatic Reaction
Calibrator:	5 mg/dL
Incubation Time:	20 minutes
Sensitivity:	0.07 mg/dL LOD
Test Volume:	10 μ L
Controls Included:	Yes
Serum-Saliva Correlation:	0.84



Assay Kit Test Principle

The Salimetrics Salivary Uric Acid Enzymatic Assay Kit has been specifically designed to standardize the quantitation of Uric Acid levels in saliva samples. This method utilizes a highly specific, proprietary reaction mixture where enzymatic conversion of Uric Acid to allantoin is coupled to a red chromogen that is proportional to the Uric Acid in the sample. This chromogen is quantitatively measured at a wavelength of 515 (or 520) nm. The amount of Uric Acid in the sample is directly proportional to the increase in absorbance at this wavelength.

References

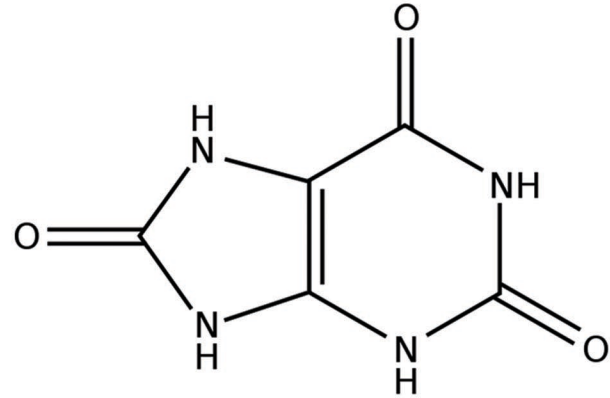
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Know Your Analyte

As the most abundant antioxidant in the body, uric acid provides health benefits at normal levels by protecting against oxidative stress originating from the body's normal metabolism and toxic environmental factors. However, abnormal uric acid levels have been associated with many adverse health effects and human diseases. Originally recognized for its role in gout, elevated uric acid (hyperuricemia) has additionally become a recognized biomarker for hypertension, cardiovascular disease, renal disease, diabetes, obesity, insulin resistance and metabolic syndrome. While on the other hand, lower uric acid (hypouricemia) is linked to several neurodegenerative diseases such as multiple sclerosis, Parkinson's, Alzheimer's, optic neuritis and poor aging. Accordingly, published uric acid research has increased over 200% in the past decade.

Now, studying uric acid is more attainable than ever with the ease, efficiency, and lower cost of salivary analyte assays. Researchers can execute progressive studies using Salimetrics' validated Salivary Uric Acid Kit to broaden the knowledge of various diseases.

Uric Acid's Biological Associations:



Cardiovascular Disease	Antioxidant Activity
Oxidative Stress	Renal Disorders
Autism	Hypertension
Hyperuricemia	Inflammation
NAFLD	Type II Diabetes
Hypouricemia	Obesity & BMI
Metabolic Syndrome	Multiple Sclerosis
Parkinson's Disease	Gout
Alzheimer's Disease	Optic Neuritis



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