



The most complete line of endocrine testing

Comprehensive Melatonin Profile

sample type: **SALIVA**

The **Comprehensive Melatonin Profile** is a convenient, noninvasive salivary assay that analyzes the circadian secretion patterns of melatonin over a complete light-dark cycle. This profile can reveal abnormal levels of melatonin that relate to various physical and psychological symptoms as well as premature acceleration of the body's aging process.

The Role of Melatonin

Melatonin is synthesized within the pineal gland from tryptophan during the dark phase of the day. With its unique ability to pass through all blood barriers in the body, melatonin acts as the central hub of physiological function. Its role is to:

- Orchestrate the complex interactions between the mind, body and environment
- Influence most of the autonomic, hormonal, and behavioral functions of the human organism
- Advance sleep time and duration
- Modulate annual and circadian biorhythms (thereby reducing symptoms of jet-lag)
- Regulate body temperature
- Regulate cardiovascular function
- Regulate immune function, with a possible role in fighting cancer
- Act as an antioxidant
- Regulate female reproductive hormones

With the far-reaching influence of melatonin over so many bodily functions, it is not surprising that imbalances have been associated with a wide array of health problems, including:

- Sleep disorders
- Depression
- Seasonal Affective Disorder (SAD)
- Chronic progressive multiple sclerosis
- Menstrual irregularities

Melatonin's synthesis and secretion can be strongly influenced by day length, artificial illumination, electromagnetic energy, exercise, seasonal changes, impairment in methionine metabolism and aging. Since synthesis and secretion are easily disrupted, accurate assessment of levels and circadian rhythm is critical.

Melatonin Testing

Genova Diagnostic's **Comprehensive Melatonin Profile** offers many distinct clinical advantages. This test:

- Analyzes three saliva specimens taken at morning, noon, and midnight. Testing allows for evaluation of melatonin activity over a complete light-dark cycle
- Measures salivary levels which correlate well with serum testing. It offers a safe, economical, and noninvasive way of assessing pineal function and melatonin secretion patterns

Once imbalances have been identified, results can be used to design and implement successful therapeutic programs, including timed application of bright light, removal of interfering factors, and melatonin administration.

•**Analytes:**
melatonin

•**Specimen Requirements:**
3 (3ml) saliva samples collected over a 24-hour period

•**Before Patient Takes this Test:**
- Avoid caffeine, alcohol, and nicotine (on day of test)
- Do not eat, brush or floss teeth, use mouthwash, or chew gum (1 hour before)
- Wash hands before collection
- See instructions inside test kit for details

Comprehensive Melatonin Profile



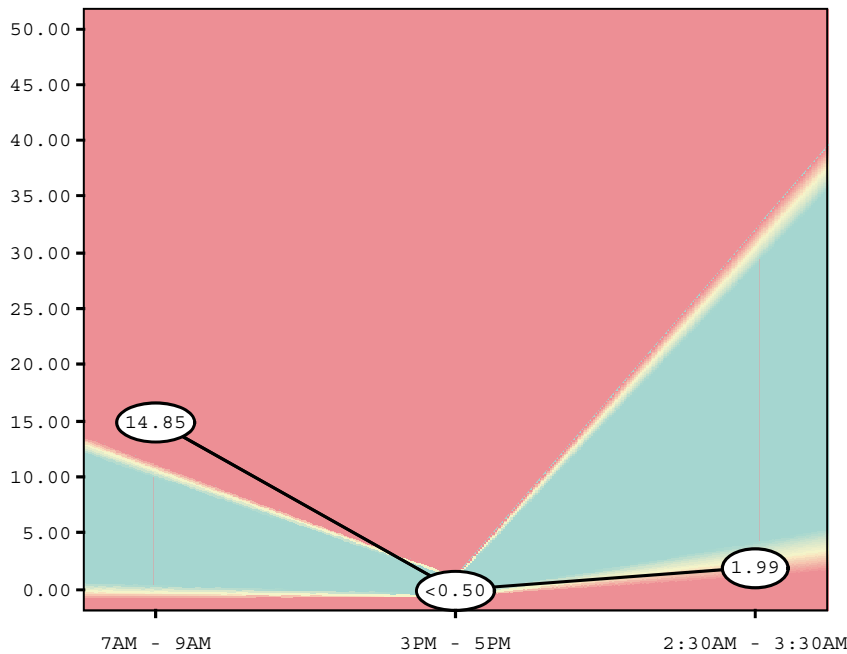
Innovative Testing for Optimal Health

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Patient: **SAMPLE** Order Number:
PATIENT Completed:
Age: 51 Received:
Sex: F Collected:
MRN:

SAMPLE REPORT

Salivary Melatonin



Reference Range

7AM - 9AM: <=10.50 pg/mL
3PM - 5PM: <=0.88 pg/mL
2:30AM - 3:30AM: 2.53-30.67 pg/mL

This test has been developed and its performance characteristics determined by GSDL, Inc. It has not been cleared or approved by the U.S. Food and Drug Administration.

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This test reveals important clinical information about:

- **Melatonin**, a powerful free radical scavenger and regulator of the sleep-wake cycle that can also influence mood, immune function, and other health conditions
- **Circadian rhythm** with evaluation of three easily gathered saliva samples over a 24-hour period
- **Efficacy of therapies to balance melatonin**, such as bright light exposure, nutritional support, and exercise

For test kits, clinical support, or more information contact:

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More detailed publications with references are also available: www.GDX.net