Melatonin Profile (Saliva)

GENOVA DIAGNOSTICS EUROPE

Parkgate House
356 West Barnes Lane
New Malden, Surrey KT3 6NB

63 Zillicoa Street
Asheville, NC 28801 USA

Patient:
DOB:
Sex: M
MRN:

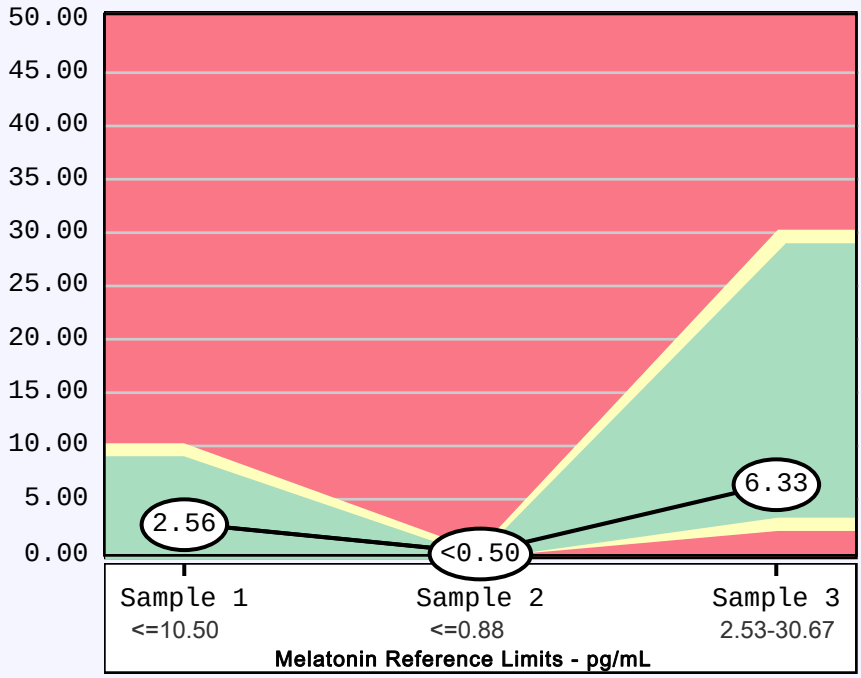
Order Number:

Completed:
Received:
Collected:

Salivary Melatonin*

Melatonin Samples

		Reference Range (pg/mL)
Sample 1 Time: 07:00 AM - 09:00 AM	2.56	<=10.50
Sample 2 Time: 3:00 PM - 5:00 PM	<0.50	<=0.88
Sample 3 Time: 2:30 AM - 3:30 AM	6.33	2.53-30.67



*Indicates testing performed by Genova Diagnostics, Inc. 63 Zillicoa St., Asheville, NC 28801-0174

Commentary - General

Melatonin is the major hormone secreted by the pineal gland and is a key modulator of seasonal and circadian biorhythms. The synthesis and secretion of melatonin is controlled by a circadian clock in the hypothalamus and is synchronised by the light/dark cycle. The production of melatonin is inhibited by daylight and occurs during darkness. Melatonin is therefore inherently involved in the timing of functions such as sleep, mood, reproduction and immune system activity. Melatonin also not only acts as a hormone, but also as a potent antioxidant and is one of the most powerful scavengers of free radicals.

Commentary - Specific

Commentary is provided to the practitioner for educational purposes, and should not be interpreted as diagnostic or treatment recommendations. Diagnosis and treatment decisions are the responsibility of the practitioner.

Commentary

Results from this test should be used for research purposes only and should not form the basis of a clinical decision or diagnosis. This assay is not covered under our accreditation scheme with UKAS.

Reference ranges for salivary hormones have been updated. The ranges have been determined using statistical analysis in accordance with regulatory guidelines.

Melatonin activity is normal throughout the sample period revealing a normal melatonin circadian rhythm. As well as playing a crucial role in sleep-wake cycles, melatonin influences other vital functions, including cardiovascular and antioxidant protection, endocrine function, immune regulation and body temperature.