



## INSULIN - Test Code 6008



Turnaround Time: 2 business days



Specimen Type: 1x SST  
Blood (Fasting)

## Description

Insulin, a hormone produced by the pancreas, plays a crucial role in regulating blood glucose levels and managing the body's storage of carbohydrates and fats. Blood glucose levels rise after eating, prompting the pancreas to release insulin. This hormone enables glucose to be absorbed by the body's cells (Park et al., 2021). Insulin is essential for human survival, as without it, glucose remains in the bloodstream and cannot enter most cells, leading to cell starvation.

Abnormal insulin levels can indicate insulin resistance, a condition where the body's cells become less responsive to insulin, often leading to elevated blood sugar levels and an increased risk of Type 2 Diabetes (Park et al., 2021). Individuals with Type 1 Diabetes, an autoimmune condition that destroys insulin-producing cells in the pancreas, require external insulin administration to maintain glucose control. This profile is particularly beneficial for individuals with a family history of diabetes, those experiencing symptoms of metabolic syndrome, or anyone seeking to optimise their health through a better understanding of their glucose metabolism.

## Whats included?

- Insulin

## Conditions and Symptoms

- Diabetes
- Insulin resistance
- Pancreatic disorders
- Weight gain
- Rapid Heartbeat and high blood pressure
- Skin changes
- Sleep disturbances

## Complementary Testing

- HbA1c (Test code 6006)
- Diabetes Profile (Test code 1016)
- Insulin Resistance Index (Test code 1109)

## Accreditations Include:

- NATA ISO 15189 – Requirements for Quality and Competence in Medical Laboratories\*
- CLIA – Clinical Laboratories Improvement Amendments\*



info@nutripath.com.au



1300 688 522



www.nutripath.com.au

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\*See NATA and CLIA website for further details