

— Metabolic & Endocrine Health

The endocrine system is the collection of glands, each of which secretes different types of hormones that regulate metabolism, growth and development, tissue function, sexual function, reproduction, ... [See more](#)

Diabetes & Insulin Resistance

Insulin resistance is a condition in which the body produces insulin but does not use it effectively. When people have insulin resistance, glucose builds up in the blood instead of being absorbed by the cells, leading to type 2 diabetes or pre-diabetes. Most people with insulin resistance don't know they have it for many years—until they develop type 2 diabetes, a serious, lifelong disease. The good news is that if people learn they have insulin resistance early on, they can often prevent or delay diabetes by making changes to their lifestyle.

When people that do not have diabetes eat, the pancreas automatically produces the right amount of insulin to move glucose from blood into the cells. In people with diabetes, however, the pancreas either produces little or no insulin, or the cells do not respond appropriately to the insulin that is produced. Glucose builds up in the blood, overflows into the urine, and passes out of the body in the urine. Thus, the body loses its main source of fuel even though the blood contains large amounts of glucose. The three main types of diabetes are: type 1 diabetes, type 2 diabetes and gestational diabetes

Hide

INSULIN, INTACT, ...
(uIU/mL)

6

Range: < OR = 16

INSULIN, INTACT, LC/MS/MS

(uIU/mL)



Result Comments

Insulin concentration can be converted to pmol/L by applying the conversion factor: $1 \text{ uIU/mL} = 5.97 \text{ pmol/L}$

For additional information, please refer to <http://education.questdiagnostics.com/faq/FAQ170>
(This link is being provided for informational/educational purposes only.)

This test was developed and its analytical performance characteristics have been determined by Quest Diagnostics. It has not been cleared or approved by the FDA. This assay has been validated pursuant to the CLIA regulations and is used for clinical purposes.

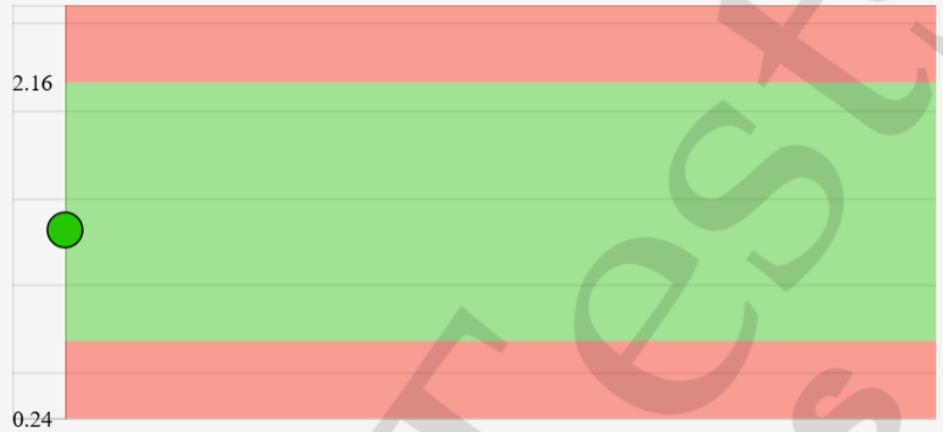
C-PEPTIDE, LC/M...
(ng/mL)

1.31

Range: 0.68-2.16

C-PEPTIDE, LC/MS/MS

(ng/mL)



INSULIN RESISTA...

14

Range: < OR = 66

INSULIN RESISTANCE SCORE



Result Comments

Insulin Sensitive < 33; Impaired Insulin Sensitivity 33-66;
Insulin Resistant >66

A score below 33 is optimal. The insulin resistance score correlates with steady state glucose levels achieved during an insulin suppression test, a standard research test for insulin resistance. The score is based on insulin and C-peptide results (Abbasi F, Shiffman D, Tong CH, et al. Insulin resistance probability scores for apparently healthy individuals. J Endocr Soc. 2018;2(9):1050-1057).

For additional information, please refer to
<http://education.QuestDiagnostics.com/faq/FAQ205>
(This link is being provided for informational/educational purposes only.)

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Uita Lab Tests
SAMPLE RESULTS