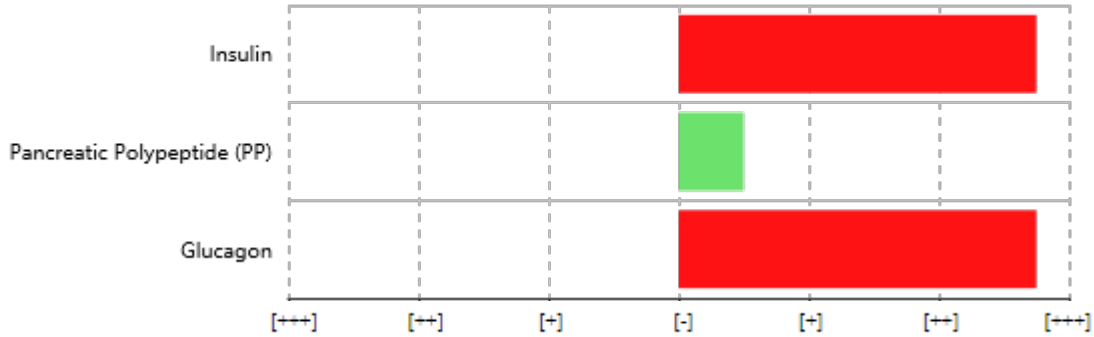
(Pancreatic Function) Analysis Report Card

Name: Leif Rehnvall Sex: Male Age: 82
Figure: 168cm, 54kg Testing Time: 2026-10-08 10:10



Actual Testing Results

Testing Item	Normal Range	Actual Measurement Value	Testing Result
Insulin	2.845 - 4.017	4,151	
Pancreatic Polypeptide (PP)	3.210 - 6.854	5,963	
Glucagon	2.412 - 2.974	3,306	

Testing Value Description:

I. Insulin: Health Scope: 2.845~4.017

It is a protein with smaller molecular weight. Its role in the body is very broad, and it mainly reduces blood sugar.

Function: 1. For glucose metabolism, it promotes the liver, muscle and adipose tissue to take up and utilize glucose, promotes the synthesis of glycogen and muscle glycogen, inhibits gluconeogenesis, and promotes glucose to be converted into fatty acids to be stored in adipose tissue; 2. For fat metabolism, it inhibits activity of lipase, thus inhibiting lipolysis; 3. For protein metabolism, it promotes protein synthesis, inhibits protein from decomposing. Once the insulin is in lack or can not exert the functionnormally, diabetes will occur.

II. Pancreatic Polypeptide (PP): Health Scope: 3.210~6.854

1. >6.854, increase.
(1) Diabetic patients;(2) acute pancreas;(3) pancreatic tumor with secretory function; (4) cirrhosis, chronic kidney disease patients; (5) others: such as the pancreatic polypeptide cell hyperplasia, myocardial infarction, severe heart failure, non-cardiogenic shock and duodenal ulcer.

2. <3.210, reduction.
(1) Obesity; (2) Chronic pancreatitis pancreatic polypeptide is obviously lower than that that of healthy people; (3) it can be used as the indicators of the vagus nerve damage, and at this time, pancreatic polypeptide is reduced obviously; (4) when it is used in growth hormone therapy.

III. Glucagon: Health Scope: 2.412~2.974

1. >2.974, increase.
Seen in insulin-insensitive diabetes and pancreatic glucagonoma.

2. <2.412, reduction.
Seen in congenital and cell deficiency.

Parameter Description
Insulin: It is a protein with smaller molecular weight. Its role in the body is very broad, and it mainly reduces blood sugar. Function: 1. For glucose metabolism, it promotes the liver, muscle and adipose tissue to take up and utilize glucose, promotes the synthesis of glycogen and muscle glycogen, inhibits gluconeogenesis, and promotes glucose to be converted into fatty acids to be stored in adipose tissue; 2. For fat metabolism, it inhibits activity of lipase, thus inhibiting lipolysis; 3. For protein metabolism, it promotes protein synthesis, inhibits protein from decomposing. Once the insulin is in lack or can not exert the functionnormally, diabetes will occur.
Pancreatic Polypeptide: It is a kind of polypeptide with hormonal nature, which synthesized and released by PP cells.
Glucagon: It is synthesized and secreted by pancreatic 5-cells, and the blood sugar concentration is elevated. The function of blood sugar and the function of insulin are antagonistic for each other.

The test results for reference only and not as a diagnostic conclusion.